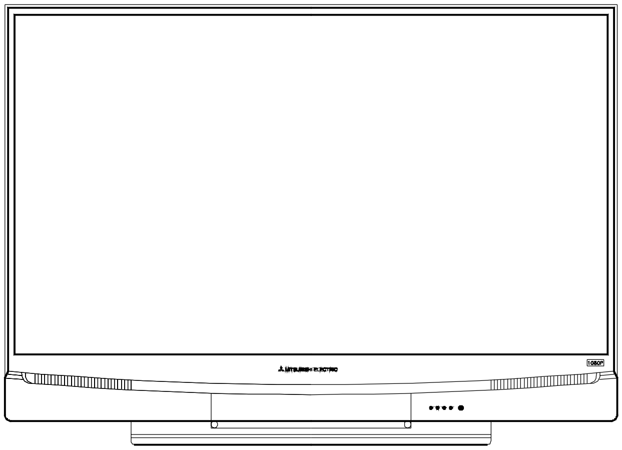
2008

MITSUBISHI ELECTRIC

Service Manual



DLP PROJECTION HDTV

V39, V39+, V39++ & V39- CHASSIS

V39 Chassis

WD-60735
WD-65735
WD-73735

V39+ Chassis

WD-65736
WD-73736

V39++ Chassis

WD-65835
WD-73835

V39- Chassis

WD-60C8
WD-65C8
WD-73C8

Pb Solder

CAUTION:
Before servicing this chassis, it is important that the service person read the "SAFETY PRECAUTIONS" and "PRODUCT SAFETY NOTICE" contained in this manual.

SPECIFICATIONS

Power Input	: AC 120V, 60Hz
Power Usage	: See table on page 5
Light Engine	: DLP™ (1920 x 1080 pixels) 5 Primary Color System
Light Source	: 180W
Channel Range	: Air VHF - 2~13, UHF - 14~69 Analog Cable - 1~125 Digital Cable - 1~135
Antenna Input	: 2 RF 75Ω unbalanced
Tuning	: 1 NTSC/ATSC/QAM
Cabinet Dimensions	: See Table on page 5
Weight	: See table on page 5
Speakers (4Ω 10W)	: Two 5½"x2¼" Oval
Input Level	: VIDEO IN JACK (RCA Type) 1.0Vp-p 75Ω unbalanced
Input Level (continued)	: AUDIO IN JACK (RCA Type) -4.7dBm 43kΩ unbalanced : S-VIDEO IN JACK (Y/C separate type) Y:1.0 Vp-p C:0.286Vp-p(BURST) 75Ω unbalanced : COMP / Y, Cr, Cb (RCA Type) Y: 1.0 Vp-p Cr, Cb: 700mVp-p
Output Level	: AUDIO OUT JACK (RCA Type) -4.7dBm 4.7kΩ unbalanced
Digital	: AC-3 Digital Audio Output (RCA Type) : HDMI™ : IR Blaster Output (V39+/ V39++ only) : USB : PC - use HMDI™\ : Wired IR Input (V39+/V39++ only)

- Design specifications are subject to change without notice.

MITSUBISHI DIGITAL ELECTRONICS AMERICA, INC.

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SCHEMATIC DIAGRAMS ....

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INTRODUCTION

This service manual provides service instructions for the V39, V39-, V39+ and V39++ chassis types. The specific models for each chassis type, dimensions and weight are listed below. Service personnel should read this manual thoroughly before servicing these chassis.

DLP Models DIMENSIONS

MODEL	CHASSIS	WIDTH	HEIGHT	DEPTH	WEIGHT	POWER USAGE
WD-60735	V39	53.9 in	36.7 in	14.4 in	64.4 lbs	240W
WD-60C8	V39-	"	"	"	"	"
WD-65735	V39	58.2 in	39.5 in	15.3 in	72.2 lbs	270W
WD-65736	V39+	"	"	"	"	"
WD-65835	V39++	"	"	"	"	"
WD-65C8	V39-	"	"	"	"	"
WD-73735	V39	65.2 in	43.6 in	17.5 in	93 lbs	"
WD-73736	V39+	"	"	"	"	"
WD-73835	V39++	"	"	"	95.2 lbs	"
WD-73C8	V39-	"	"	"	"	"

This service manual includes:

1. Assembly and disassembly instructions for cabinet and chassis components.
2. Servicing of the Lenticular Screen and Fresnel Lens.
3. Servicing printed circuit boards (PCBs).
4. Electrical and Mechanical adjustments.
6. Chip parts replacement procedures.
7. Circuit path diagrams.

The parts list section of this service manual includes:

1. Cabinet and screen parts.
2. Electrical parts.

Schematic and block diagrams of the above listed models are included in this service manual for better understanding of the circuitry.

PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in television receivers have special safety related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc.

Replacement parts which have special safety characteristics are identified in this service manual.

Electrical components having such features are identified by shading on the schematic diagram and parts list of this service manual. **Therefore, the replacement for any safety part should be identical in value and characteristics.**

Pb Solder

The PWBs used in the V39, V39+. V39++ and V39- chassis are constructed using Lead-Free solder. **When servicing use only recommended Lead-Free solder (refer to page 33).**

SAFETY PRECAUTIONS

NOTICE: Observe all cautions and safety related notes located inside the receiver cabinet and on the receiver chassis.

WARNING:

1. Operation of this receiver outside the cabinet or with the cover removed presents a shock hazard from the receiver's power supplies. Work on the receiver should not be attempted by anyone who is not thoroughly familiar with the precautions necessary when working on high voltage equipment.
2. When service is required, observe the original lead dress. Where a short-circuit has occurred, replace those components that indicate evidence of overheating.

SAFETY PRECAUTION

To protect your eyes, do not look directly into the lamp, or light coming directly from the lamp, lens or mirror.

Leakage current check

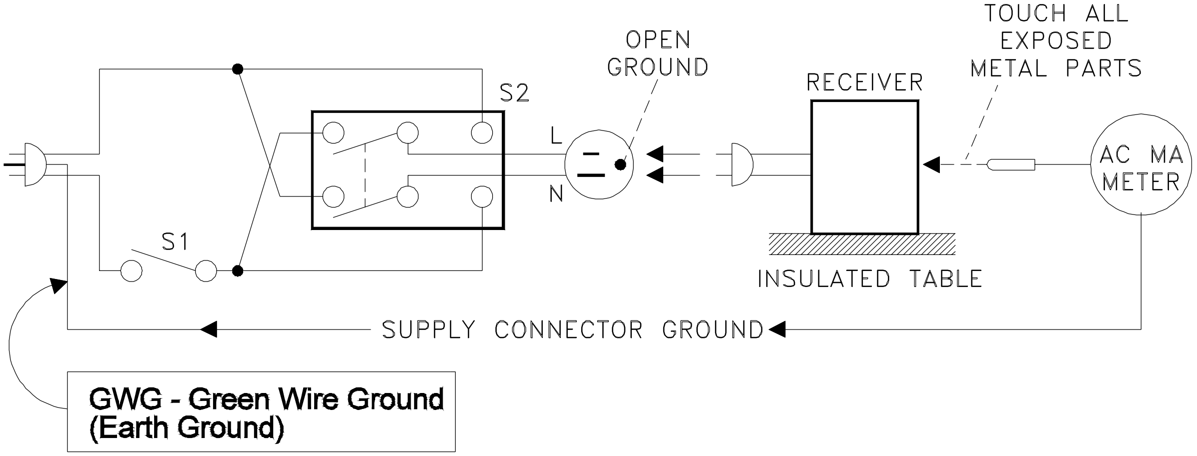
Before returning the receiver to the customer, it is recommended that leakage current be measured according to the following methods.

1. Cold Check

With the alternating current (AC) plug removed from the AC source, place a jumper across the two AC plug prongs. Connect one lead of an ohm meter to the AC plug and touch the other lead to each exposed metal part (i.e. antennas, handle bracket, metal cabinet, screw heads, metal overlay, control shafts, etc.), particularly any exposed metal part that has a return path to the chassis. The resistance of the exposed metal parts having a return path to the chassis **should be a minimum of 1Meg Ohm**. Any resistance below this value indicates an abnormal condition and requires corrective action.

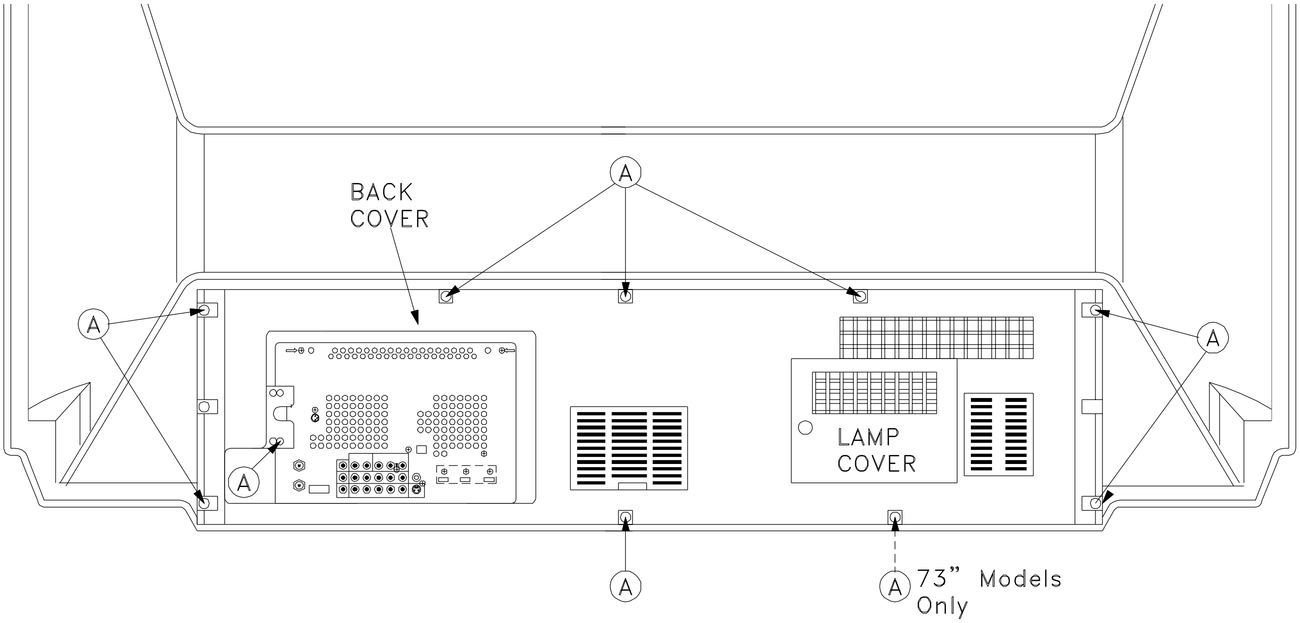
2. Hot Check ...Use the circuit shown below to perform the hot check test.

1. Keep switch S1 open and connect the receiver to the measuring circuit. Immediately after connection, and with the switching devices of the receiver in their operating positions, measure the leakage current for both positions of switch S2.
2. Close switch S1, energizing the receiver. Immediately after closing switch S1, and with the switching devices of the receiver in their operating positions, measure the leakage current for both positions of switch S2. Repeat the current measurements of items 1 and 2 after the receiver has reached thermal stabilization. **The leakage current must not exceed 0.5 milliampere (mA).**



DISASSEMBLY

Back Cover Removal



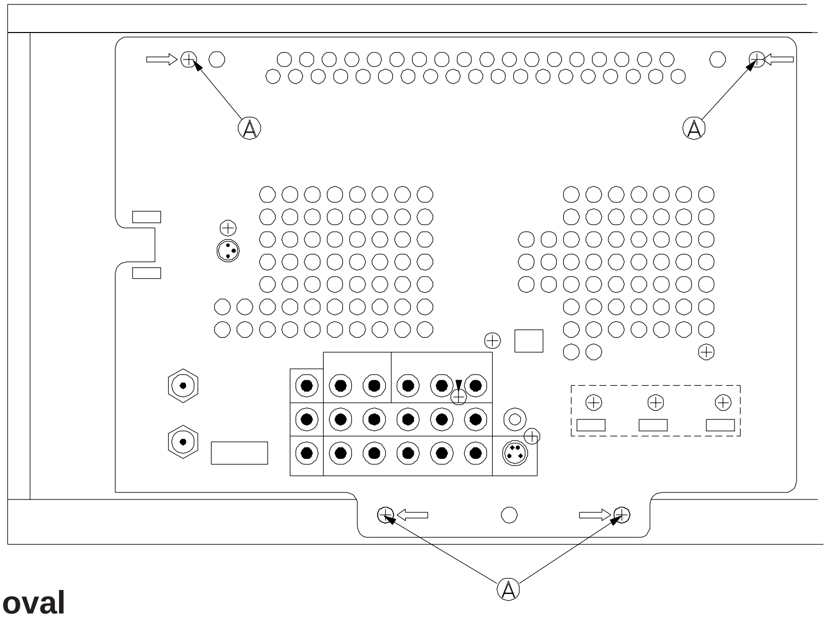
Back Cover Removal Procedure

1) Remove the Lamp Cover.
2) Remove screws (A) from the back cover.
3) Pull the back cover from the TV.

Back Cover Installation

Reverse the removal procedure but **install the Lamp Cover Last.**

Chassis Removal



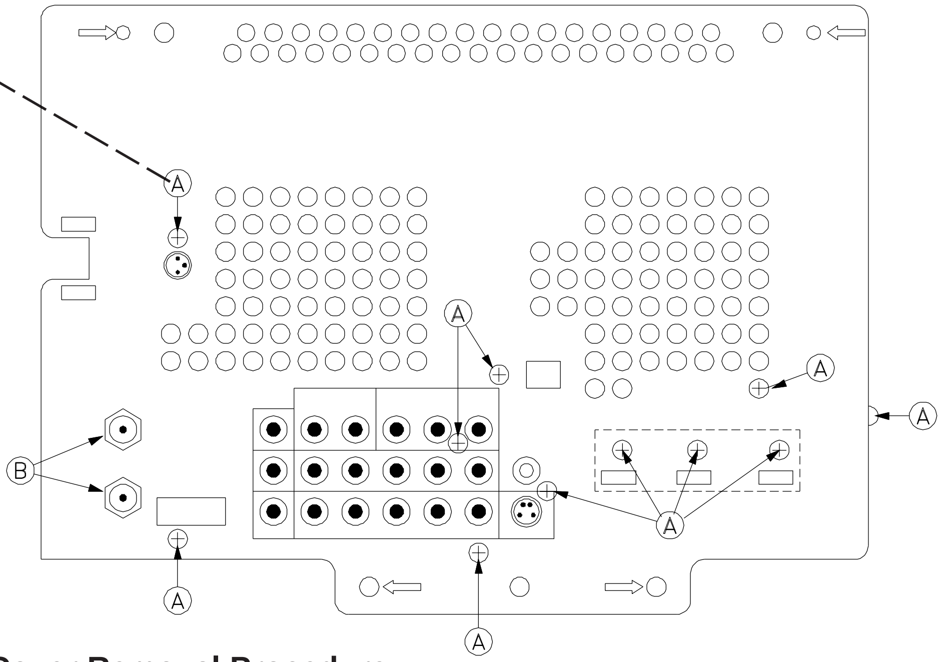
Chassis Removal

1) Remove four screws (A)
2) Disconnect all cables connecting to the chassis.
3) Carefully slide the chassis out of the Cabinet.

Chassis Disassembly

Rear Inputs Cover Removal

DO NOT use a power driver on this screw.



Rear Inputs Cover Removal Procedure

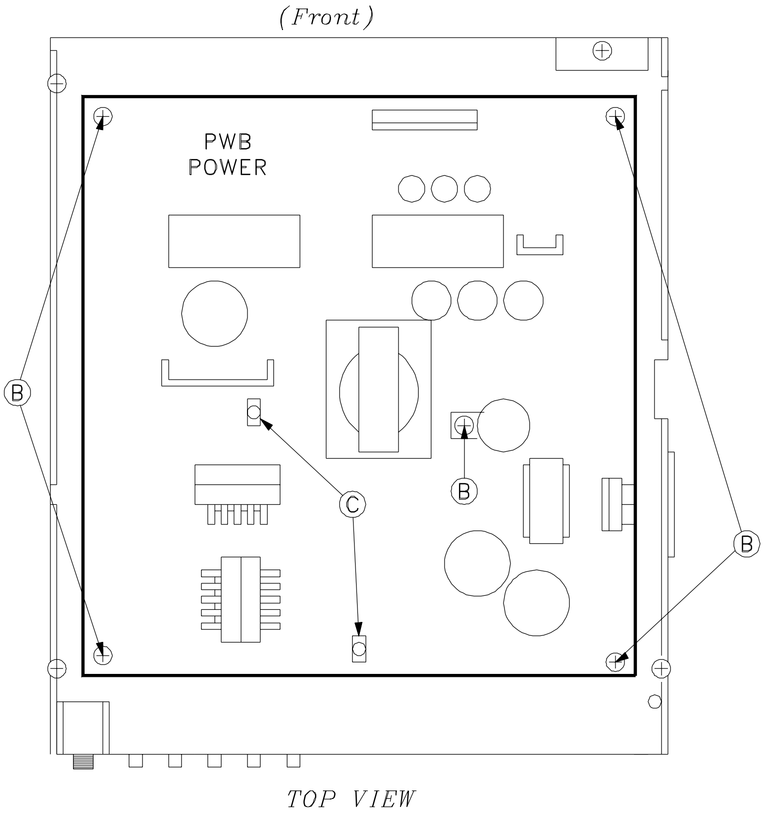
1) Remove 2 nuts (B) from the RF inputs.
2) Remove screws (A) that secure the cover to the chassis.
3) Pull the Inputs Cover from the chassis..

PWB-POWER Removal

1) Remove five screws (B)
2) Disconnect all cables to the PWB-POWER.
3) Release clips (C).
4) Carefully lift the PWB-POWER from the chassis box.

PWB-POWER Installation

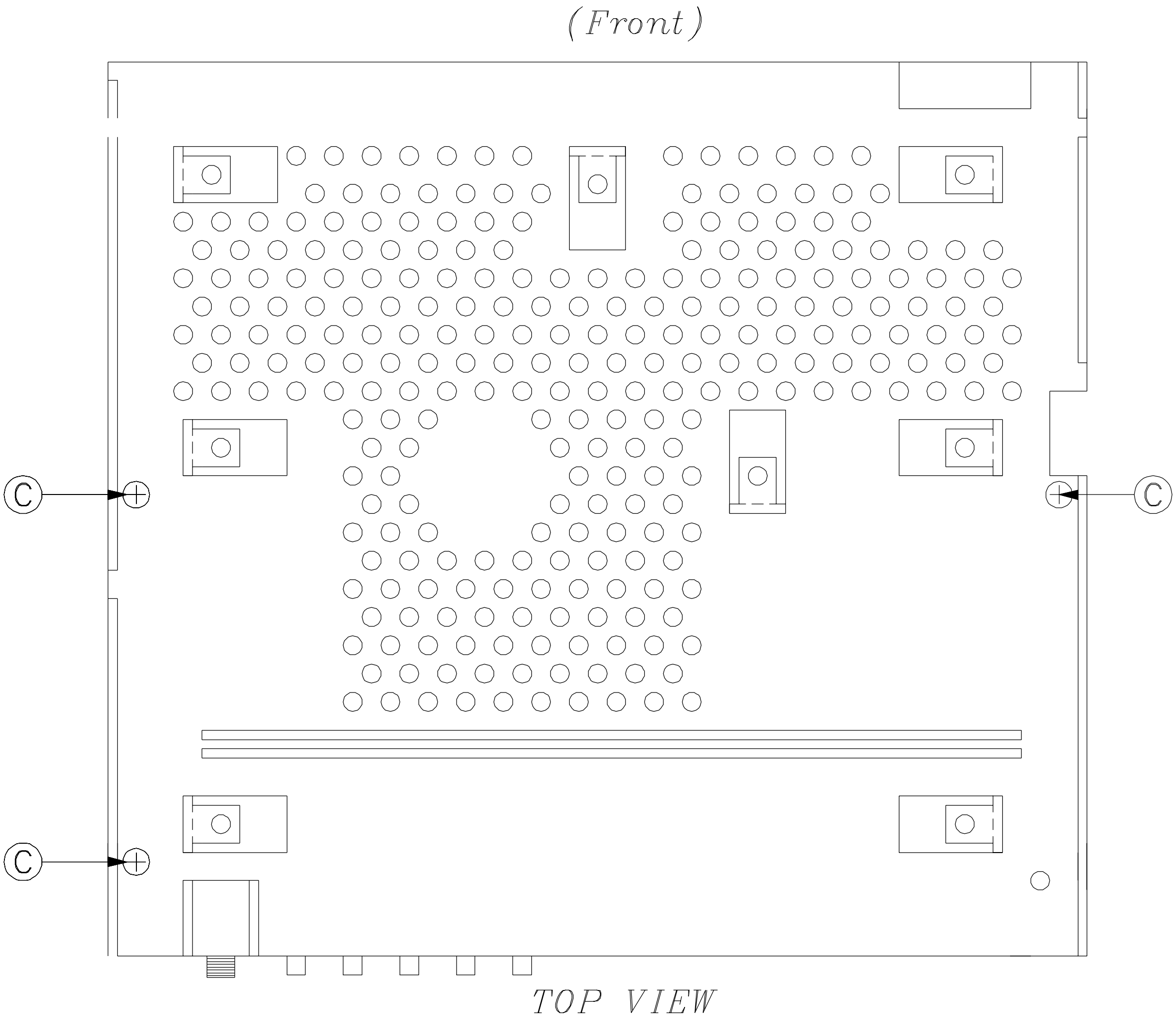
1) Reverse the removal procedure to install a new PWB-POWER.
2) No data transfer is required.



Chassis Disassembly (continued)

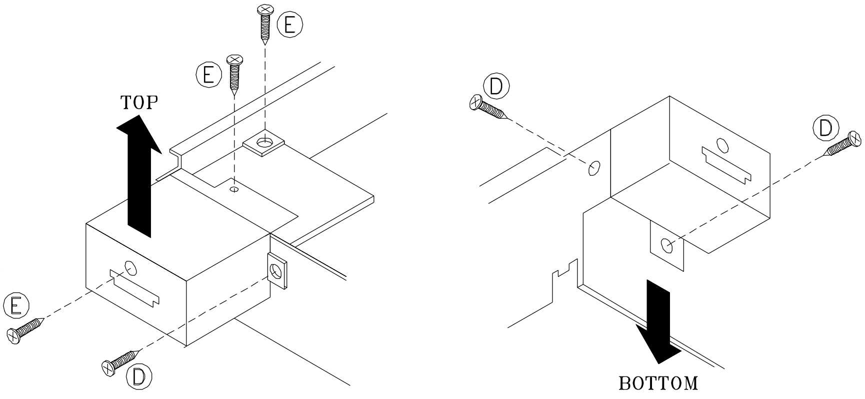
Chassis Cover Removal

1) Remove 3 screws (C).
2) Lift the Chassis Cover from the chassis box.



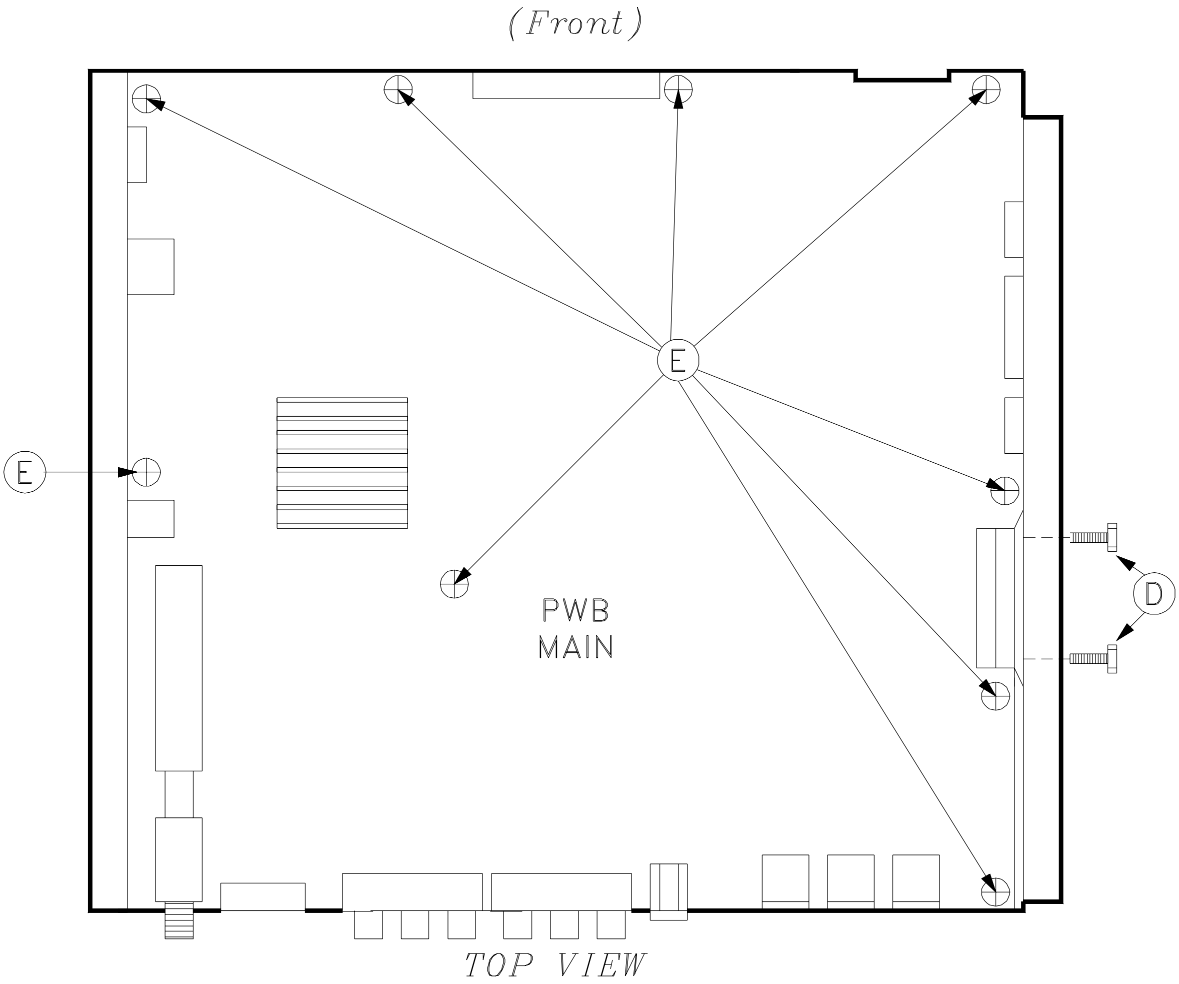
PWB-HDMI-FRONT Removal

1) Disconnect all cables to PWB-HDMI-FRONT
2) Remove three screws (D).
3) Carefully lift the PWB-HDMI-FRONT from the chassis box.
4) To remove PWB-HDMI, remove two screws (E) and slide the PWB out the rear of the shield.



PWB-MAIN Removal

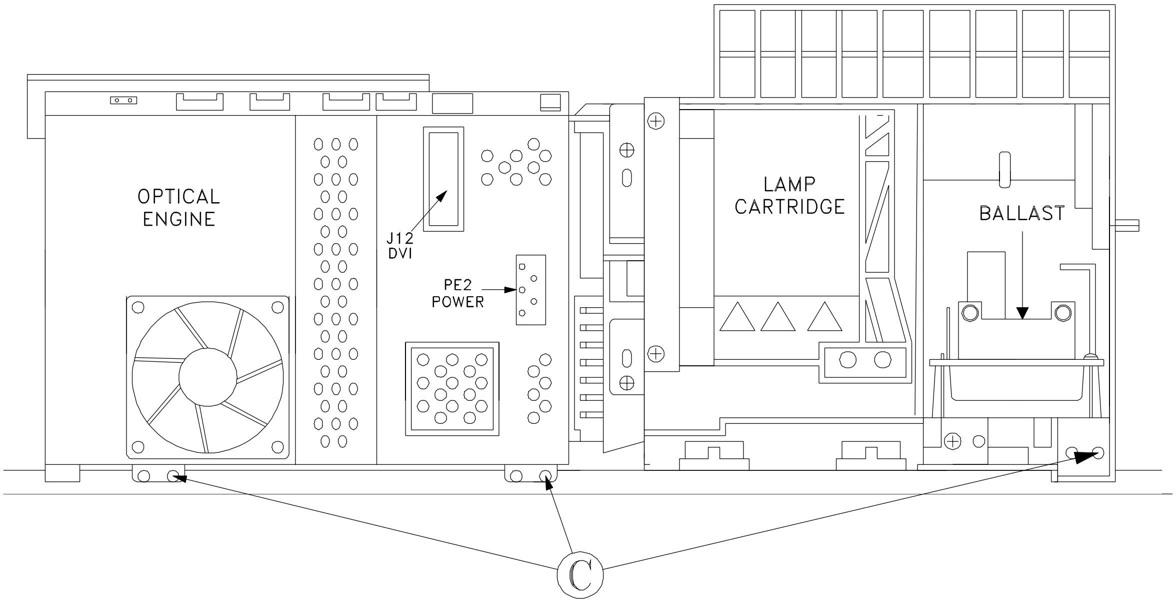
1) Disconnect all cables to PWB-MAIN
2) Remove two screws (D).
3) Remove screws (E).
4) Carefully lift the PWB-MAIN from the chassis box.



PWB-MAIN Installation

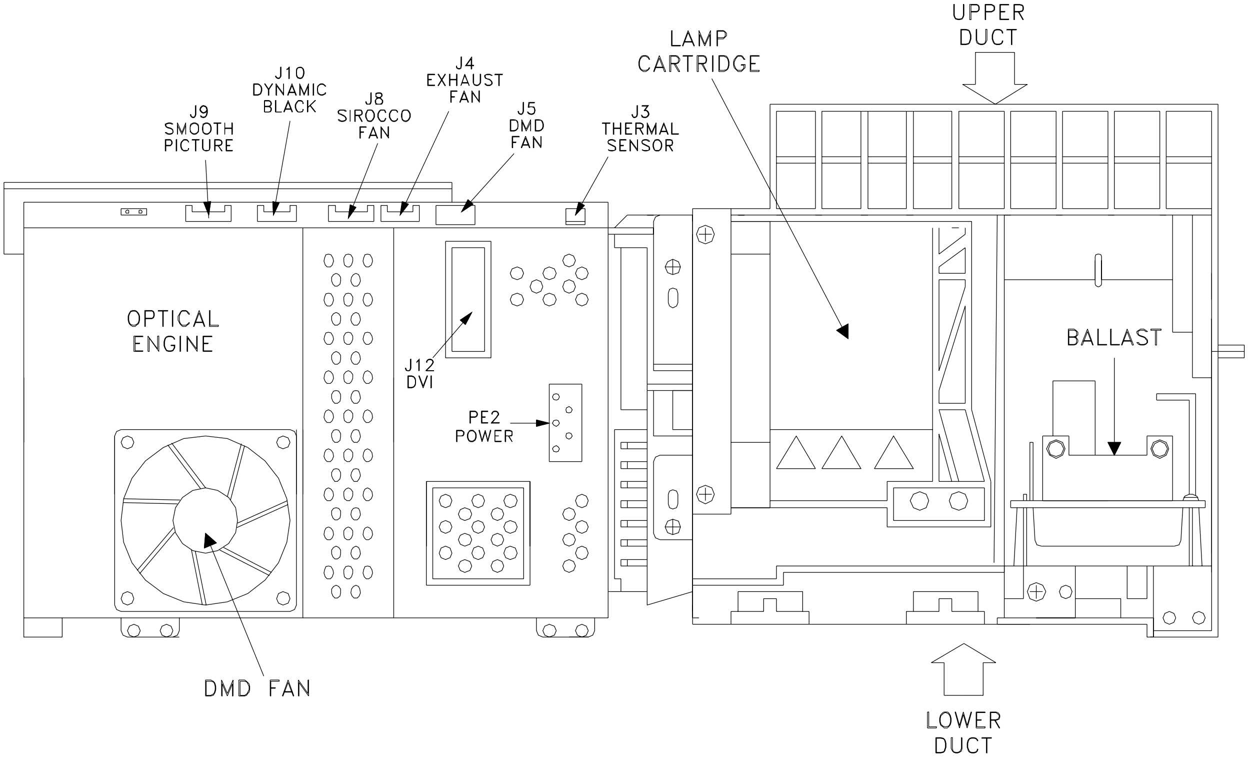
1) Install two screws (D) first
2) Then install screws (E).
3) Transfer Index Data from Engine (refer to page 32)
4) Restore Alignment and White Balance Settings.
5) Restore Keystone Geometry from Backup.

OPTICAL ENGINE REMOVAL


OPTICAL ENGINE
J12 DVI
PE2 POWER
LAMP CARTRIDGE
BALLAST
C

OPTICAL ENGINE ASSEMBLY REMOVAL

1) Remove 3 screws (C) from the Optical Engine.
2) Disconnect all cables to the Optical Engine Assembly.
3) Carefully slide the Optical Engine assembly from the cabinet.


UPPER DUCT
LAMP CARTRIDGE
J10 DYNAMIC BLACK
J4 EXHAUST FAN
J9 SMOOTH PICTURE
J8 SIROCCO FAN
J5 DMD FAN
J3 THERMAL SENSOR
OPTICAL ENGINE
J12 DVI
PE2 POWER
BALLAST
DMD FAN
LOWER DUCT

OPTICAL ENGINE ASSEMBLY AND CONNECTOR LOCATIONS
(Rear View)

OPTICAL ENGINE REMOVAL FROM THE DUCT ASSEMBLY

Upper Duct Assembly Removal Procedure

1) Disconnect the Ballast Fan and Lamp Fan from the back of the Engine (connectors J4 and J8) and loosen wiring harnesses from the looms, refer to page 11 for connector locations.
1) Loosen two screws (**a**) to remove the Lamp Cartridge, refer to *Figure 1.*
3) Remove 3 screws (**b**) from the top of the upper duct and release the 7 snaps shown in *Figure 2.*
4) Carefully remove the upper Duct assembly

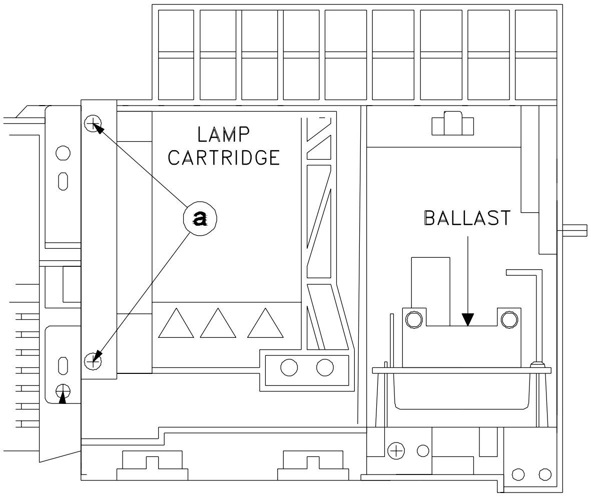

LAMP
CARTRIDGE
a
BALLAST

Figure 1: Duct Assembly (Rear View)

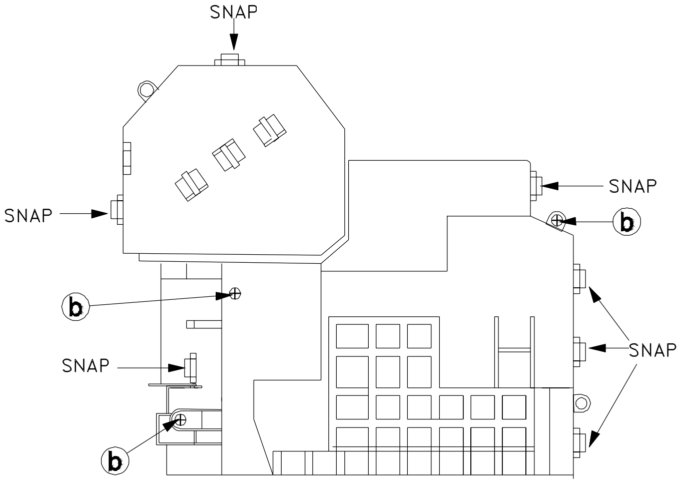

SNAP
SNAP
SNAP
b
b
SNAP
SNAP
b

Figure 2: Duct Assembly (Top View)

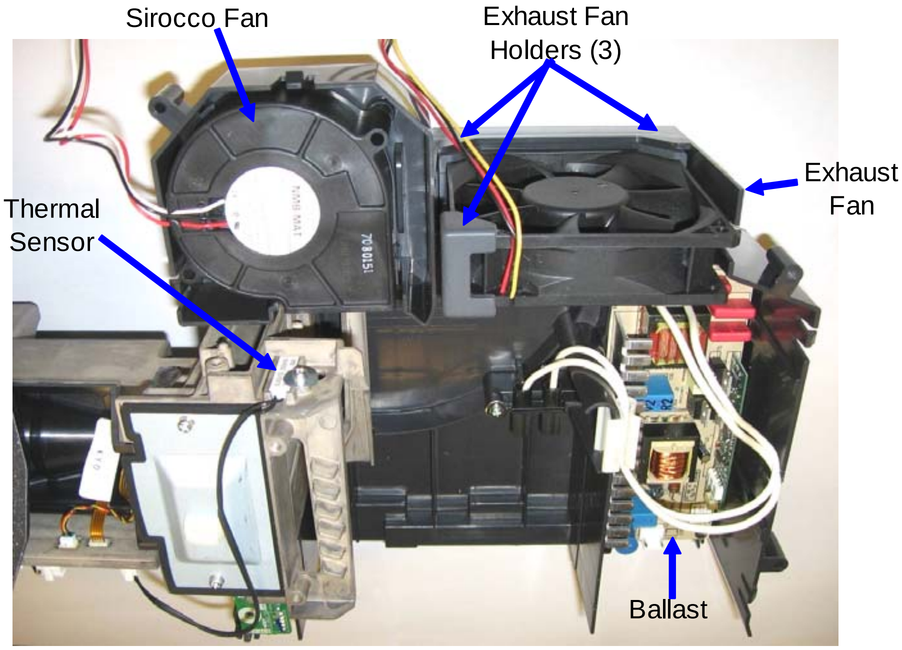

Sirocco Fan
Exhaust Fan
Holders (3)
Exhaust
Fan
Thermal
Sensor
Ballast

Figure 3: Lower Duct (Top View)

LOWER DUCT (Upper Duct Removed)

1) *Figure 3* shows the components in the Lower Duct.
2) The Sirocco Fan and Exhaust Fan can be replaced. The Engine and Upper Duct do not have to be removed to replace the Ballast.
3) If replacing the Engine, remove the Thermal Sensor from the Engine (1 screw) *Figure 3.*

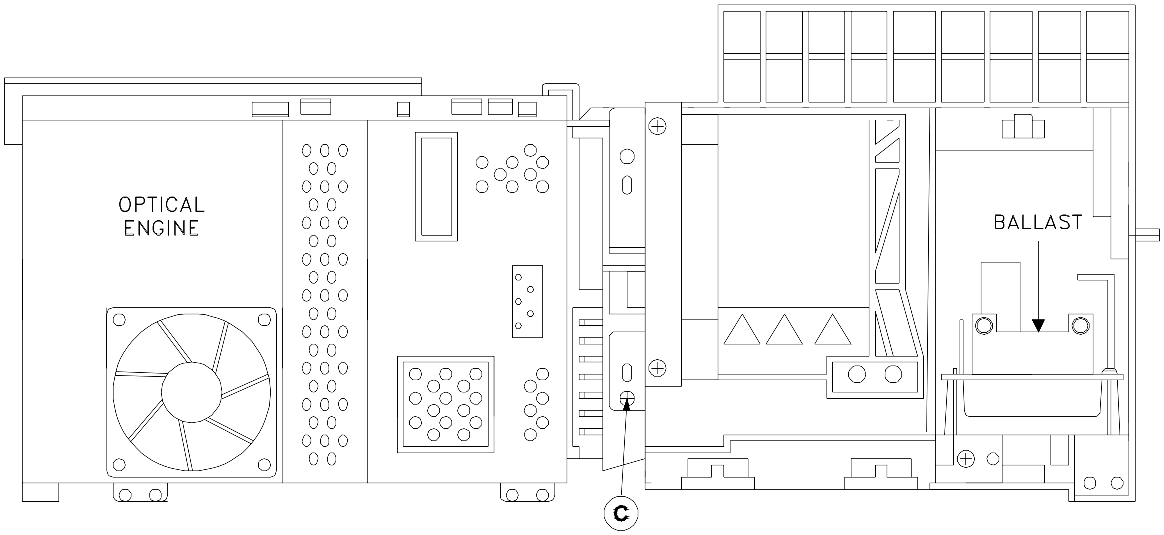


Figure 4: Lower Duct rear Mounting Screw

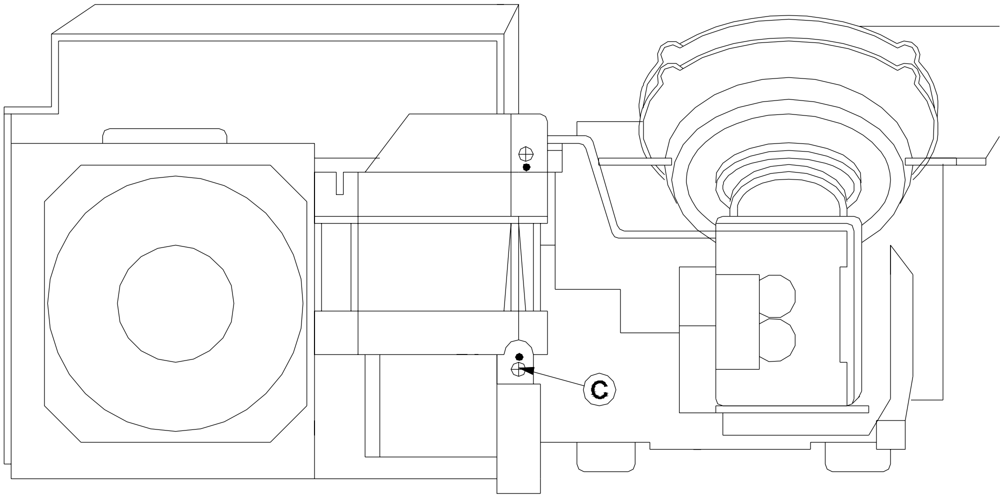


Figure 5: Lower Duct front Mounting Screw

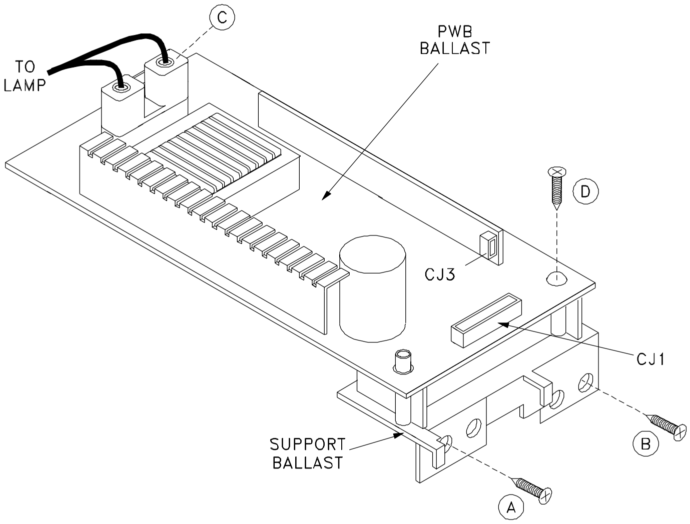
LOWER DUCT REMOVAL

1) Remove the 2 screws (**C**) one in front and one in the rear of the lower duct, refer to *Figures 4 and 5.*
2) Carefully remove the lower duct from the Engine.

ENGINE REPLACEMENT (Reverse the Removal Procedure)

1) Install Duct assembly on the new Engine.
2) Remove the Protective Lens Cover from the face of the Lens.
3) Install the Engine Assembly in the cabinet.
4) After a new Engine is installed Load Index Delay Data from the Engine and Copy Settings to Backup (page 32).
5) Adjust Raster Centering (page 28) and Manual Keystone Geometry Alignment (page 29) if needed.

BALLAST ASSEMBLY REMOVAL

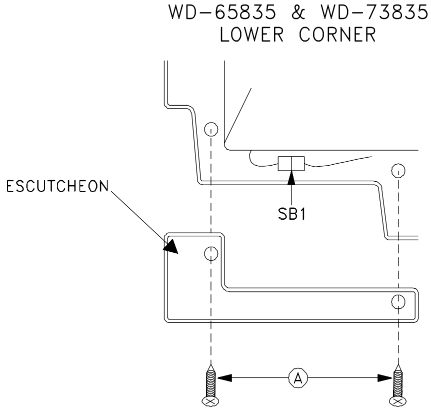

C
TO LAMP
PWB BALLAST
D
CJ3
CJ1
B
SUPPORT BALLAST
A

REMOVAL PROCEDURE

1) Remove screw (A) from the Ballast support and screw (B) if the Engine is still mounted in the cabinet.
2) Slide the Ballast Assembly out the rear of the Engine assembly and unplug the Lamp connector (C) at the Ballast.
3) Disconnect connectors CJ1 and CJ3.
4) Remove screw (D) to remove the PWB-BALLAST from the Ballast Support.

Reverse the procedure to install a new Ballast .

SCREEN REMOVAL & REPLACEMENT


WD-65835 & WD-73835
LOWER CORNER
ESCUTCHEON
SB1
A

WD-65835 & WD-73835 Only

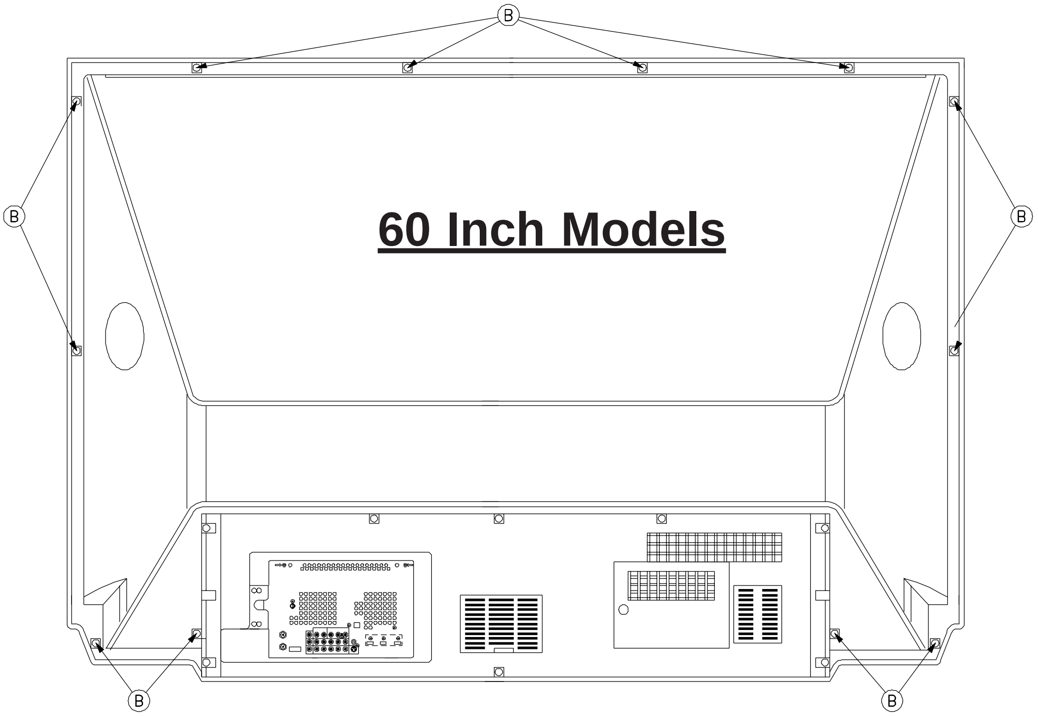
Escutcheon Removal

Before Removing the Screen Assembly (V39++ Models Only)

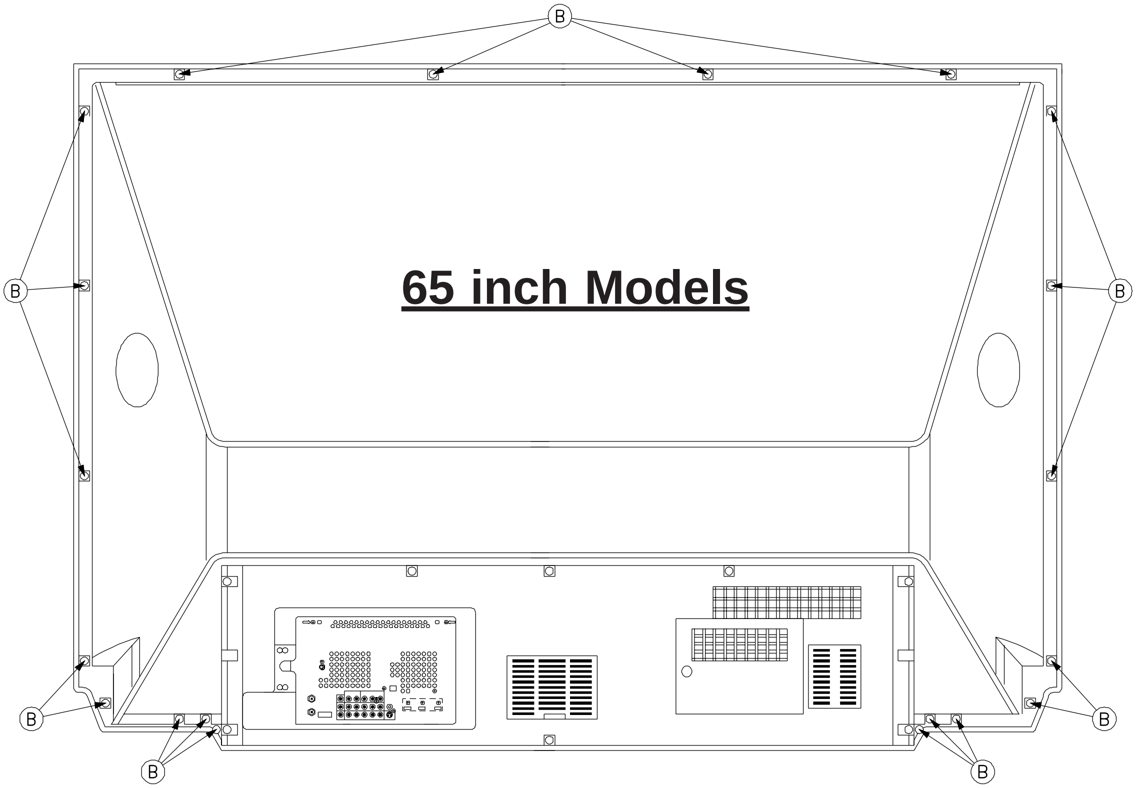
1) Remove 2 screws (A) at the lower rear corner on the right side.
2) Remove the small escutcheon cover to access the SB1 connector
3) Unplug the SB1 connector. This disconnects the PWB-SBL-R & PWB-SBL-L.

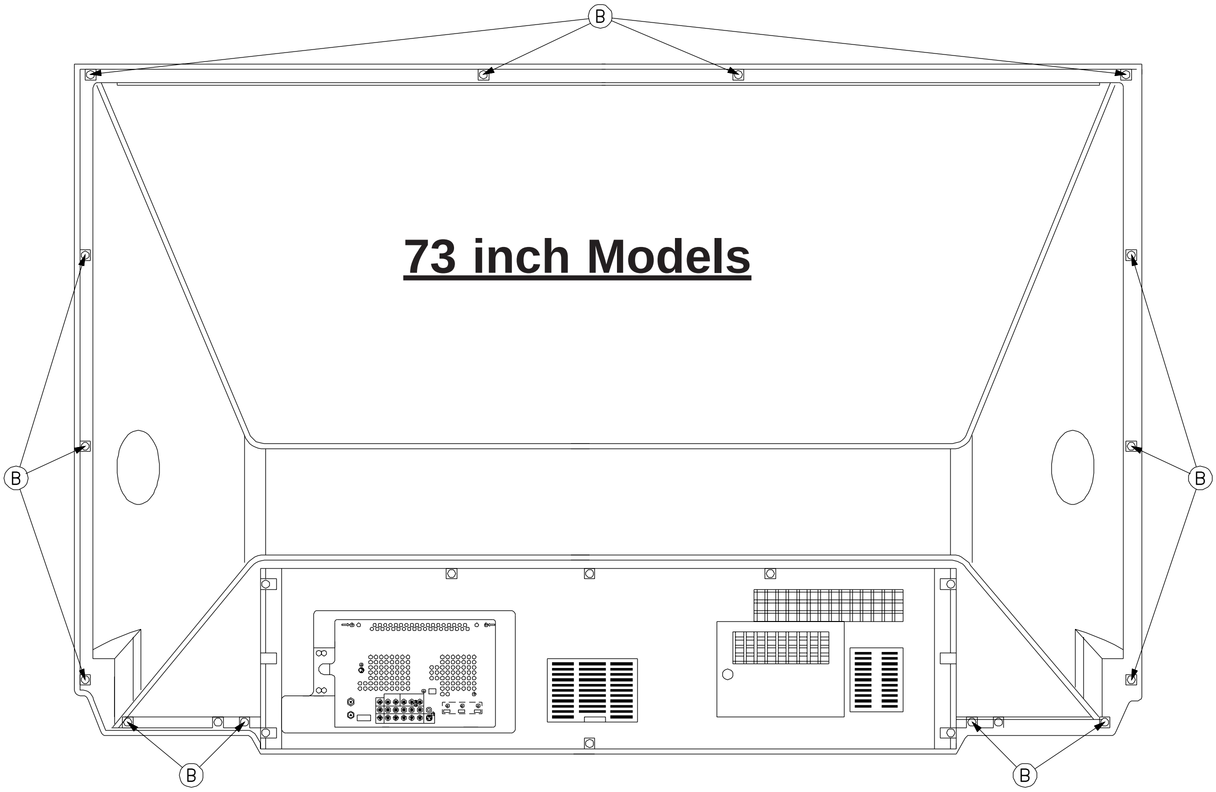
Screen Assembly (Bezel) Removal

1) Remove all rear screws (B) except one in an upper corner (To support the screen assembly while removing the front mounting screws).


B
B
B
60 Inch Models
B
B

SCREEN REPLACEMENT (continued)

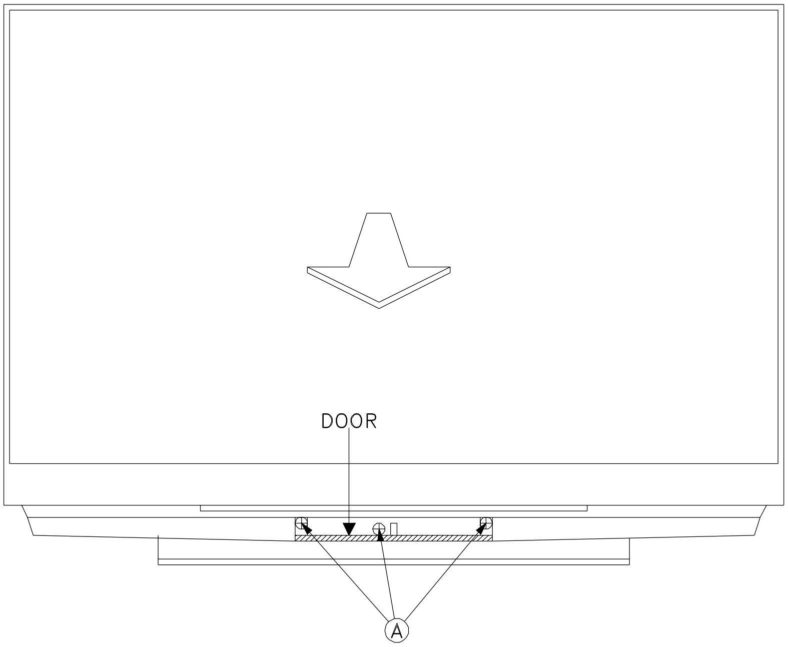

B
B
B
B
B
B
B
65 inch Models


B
B
B
B
B
73 inch Models

SCREEN REPLACEMENT (continued)

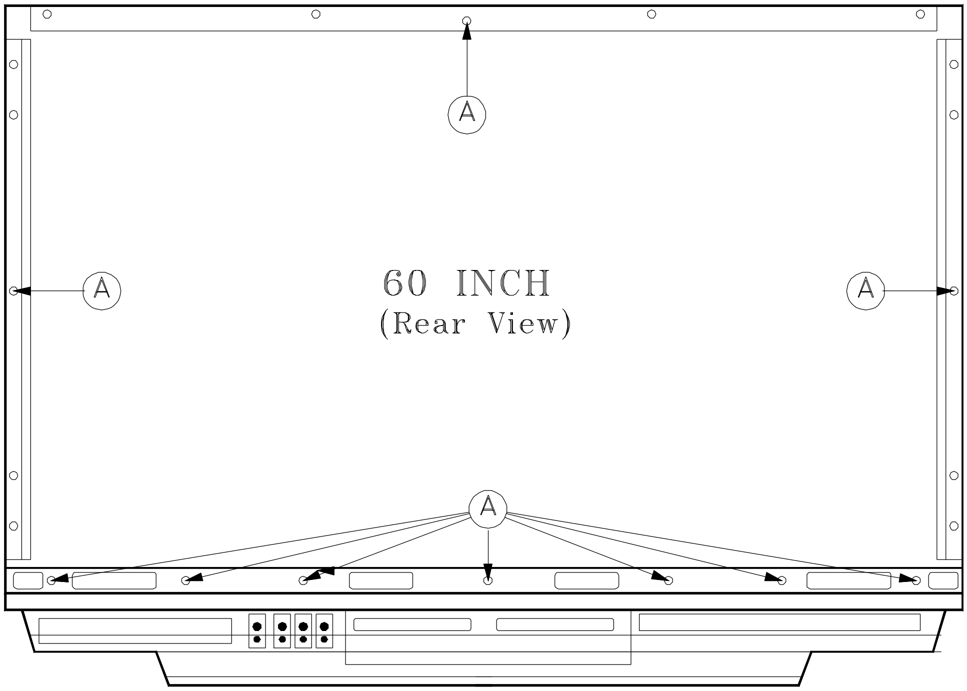
Screen Assembly Removal (continued)

2) Open the Control Panel door and remove two screws (A).
3) Remove the remaining rear screw in the upper corner and carefully pull the screen assembly from the cabinet.

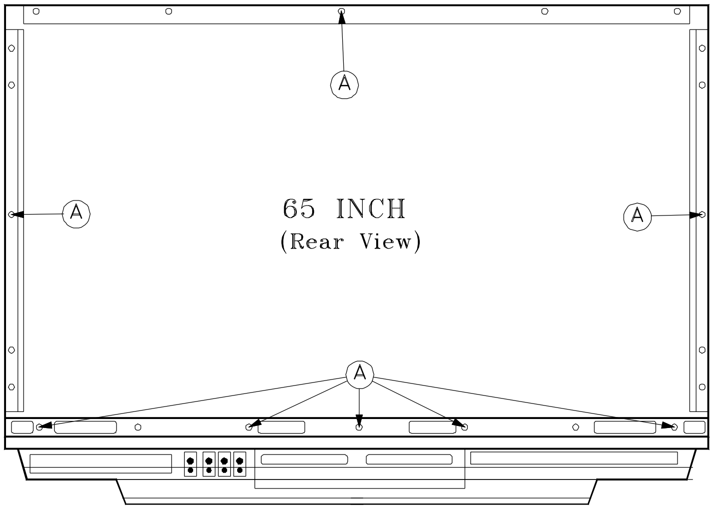


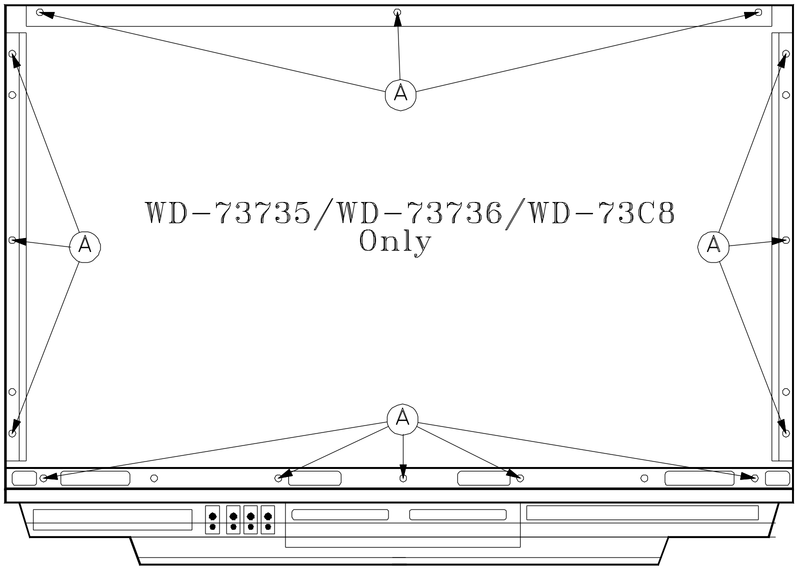
Screen Removal From the BEZEL-FRONT

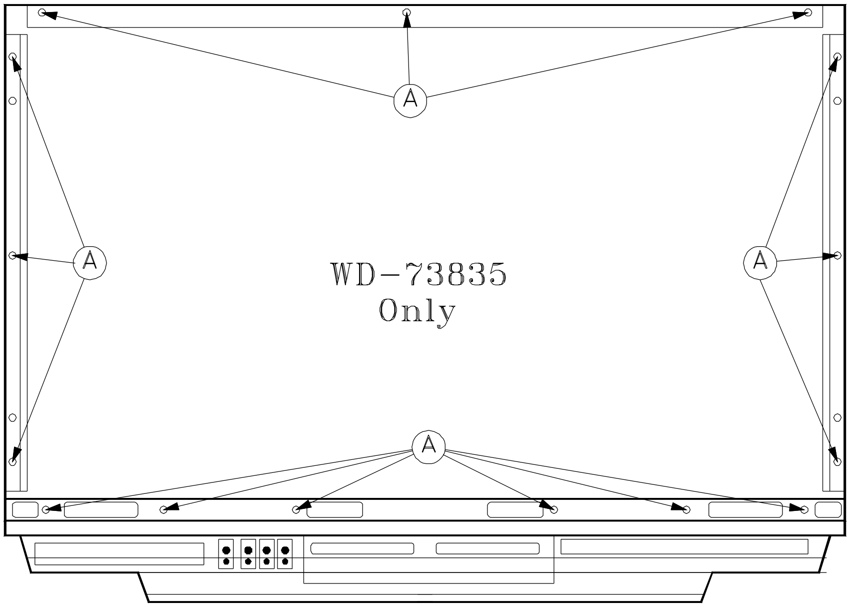
1) Remove the screws (A) from the top, bottom and side rails.
2) Lift the Fresnel Lens and Lenticular screen from the BEZEL-FRONT.



SCREEN REPLACEMENT (continued)


A
A
A
A
65 INCH
(Rear View)


A
A
A
A
WD-73735/WD-73736/WD-73C8
Only


A
A
A
A
WD-73835
Only

Screen Replacement

CAUTION: **Wear gloves** when handling the Lenticular Screen and Fresnel Lens. This prevents cuts and finger prints. **Do not place Fresnel Lens in the sun**. This may cause fire and heat related injuries.

Lenticular Screen and Fresnel Lens Removal

1) Remove the top, bottom and side HOLDER-SCREEN rails and their cushions from the Bezel.
2) Lift the screens as a single unit from the frame.
2. Separate the Lenticular Screen and Fresnel Lens.

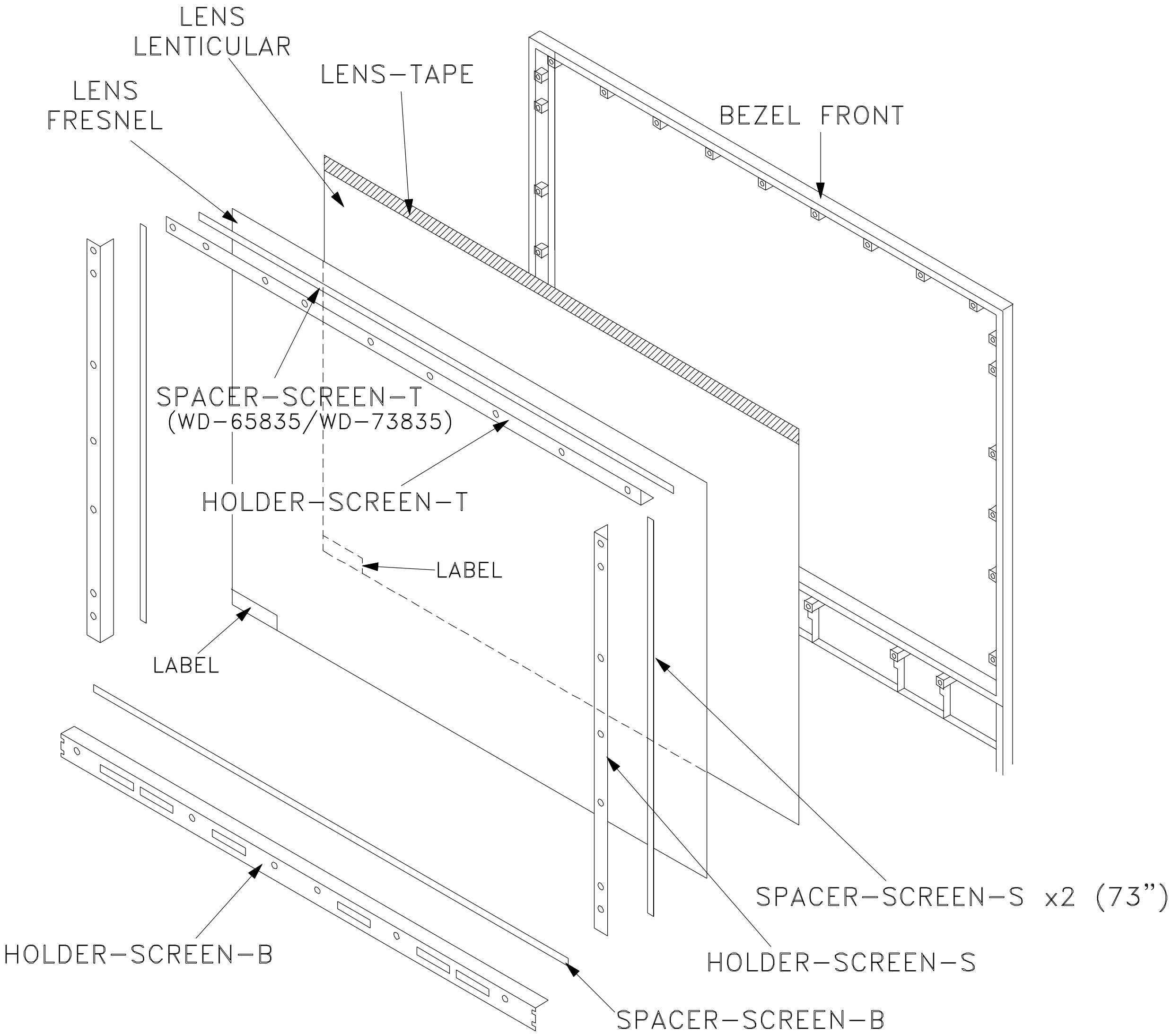
Note: When separating the Lenticular Screen from the Fresnel Lens, use caution while prying the Screen and Lens apart. Use a slot type screw driver, and remove the pressure sensitive double sided tape.

Lenticular Screen and Fresnel Lens Replacement

1) Apply LENS-TAPE along the rear top edge of the Lenticular Screen.
2) Place the Fresnel Lens on top of the Lenticular Screen, and apply pressure along the top edge.
3) Place the screens in the screen frame and reinstall the cushions, top, bottom and side rails.

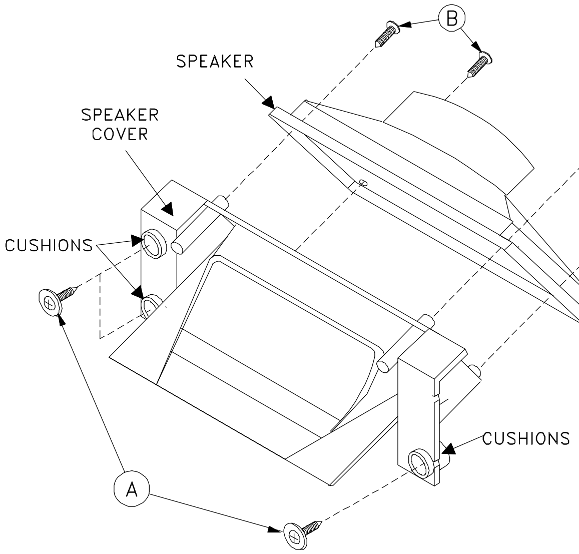
NOTE: The Lenticular Screen label must face the front and the Fresnel Lens label face the rear.

4) Reverse the Screen Removal Procedure and insert the screens in the Bezel.


LENS
LENTICULAR
LENS
FRESNEL
LENS-TAPE
BEZEL FRONT
SPACER-SCREEN-T
(WD-65835/WD-73835)
HOLDER-SCREEN-T
LABEL
LABEL
SPACER-SCREEN-S x2 (73")
HOLDER-SCREEN-B
HOLDER-SCREEN-S
SPACER-SCREEN-B

Speaker Replacement

1) Remove the Bezel screen assembly to access the speakers.
2) Remove 2 screws (A) and carefully slide the Speaker Assembly from the cabinet.
3) Disconnect the leads to the speaker.
4) Remove 4 screws (B) to remove the speaker from the speaker cover.
5) Reverse the procedure to install a replacement speaker.

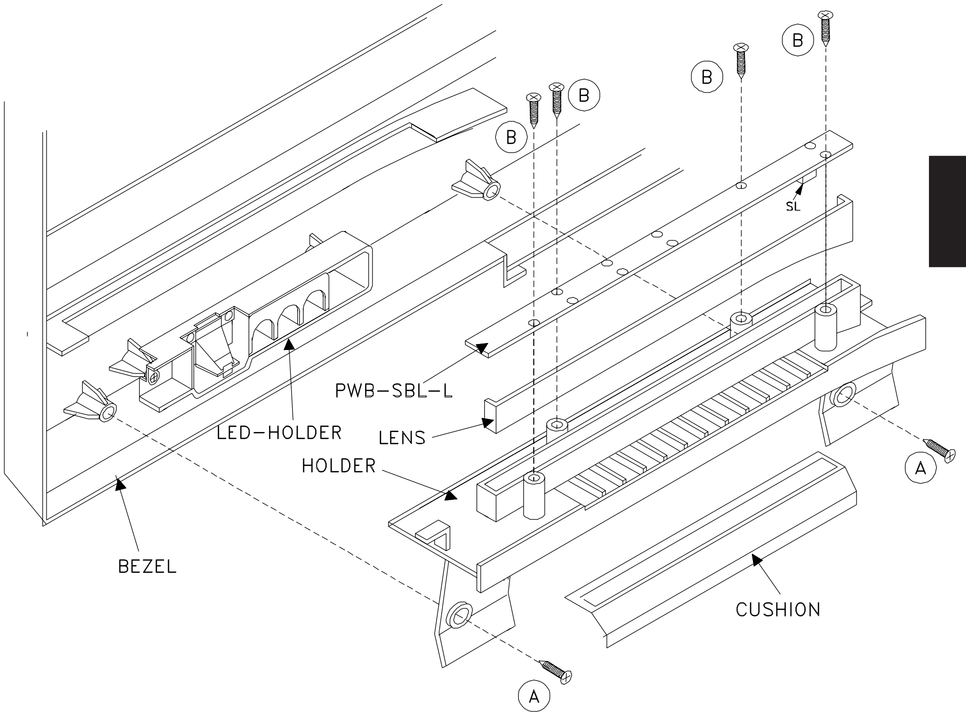

B
SPEAKER
SPEAKER COVER
B
CUSHIONS
CUSHIONS
A

SPEAKER ASSEMBLY

WD-65835 & WD-73835 (Only)

PWB-SBL-R & PWB-SBL-L Replacement

1) The screen Bezel Assembly must be removed to access the PWBs-SBL (refer to the V38 Bezel Removal Procedure).
2) Remove 2 screws (A) to remove the PWB-SBL assembly from the Bezel.
3) Remove 4 screws (B) to remove the PWB from the assembly.
4) Reverse the procedure to install a replacement PWB-SBL.

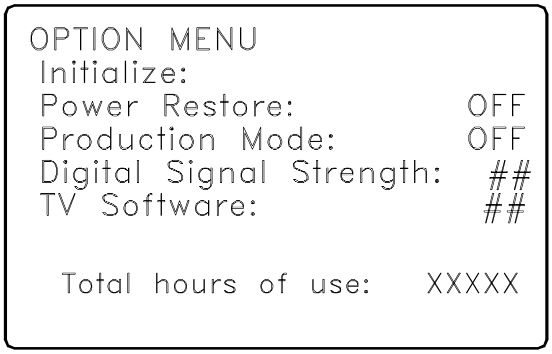

B
B
B
B
SL
PWB−SBL−L
LED−HOLDER
LENS
HOLDER
BEZEL
CUSHION
A
A

V39++ SBL ASSEMBLY

OPTION MENU

1. Press the “MENU” button on the remote hand unit.
2. Press the buttons “2”, “4”, “7” and “0” in order.
   (The screen will change to the option menu.)

MENU–2–4–7–0

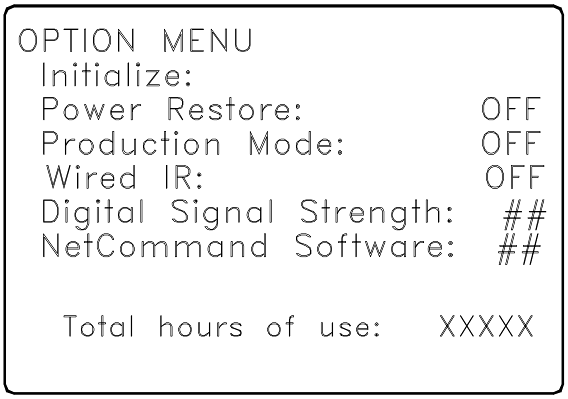


```
OPTION MENU
 Initialize:
 Power Restore:              OFF
 Production Mode:            OFF
 Digital Signal Strength:     ##
 TV Software:                 ##

   Total hours of use:    XXXXX
```

V39 OPTION MENU

MENU–2–4–7–0

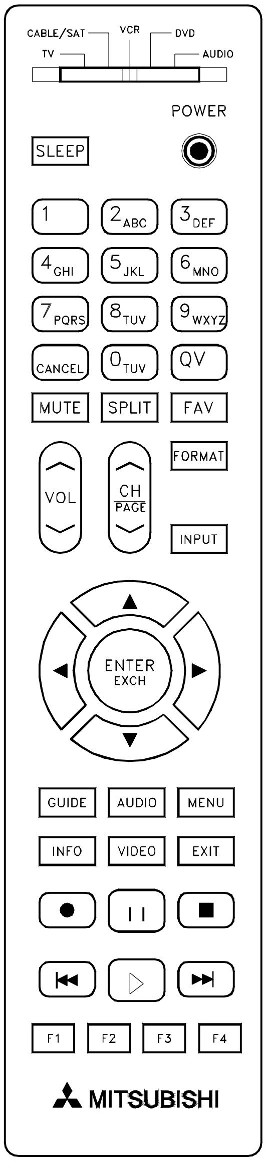


```
OPTION MENU
 Initialize:
 Power Restore:              OFF
 Production Mode:            OFF
 Wired IR:                   OFF
 Digital Signal Strength:     ##
 NetCommand Software:         ##

   Total hours of use:    XXXXX
```

V39+ & V39++ OPTION MENU

REMOTE CONTROL


CABLE/SAT
VCR
DVD
TV
AUDIO
POWER
SLEEP
1
2 ABC
3 DEF
4 GHI
5 JKL
6 MNO
7 PQRS
8 TUV
9 WXYZ
CANCEL
0 TUV
QV
MUTE
SPLIT
FAV
FORMAT
VOL
CH PAGE
INPUT
ENTER EXCH
GUIDE
AUDIO
MENU
INFO
VIDEO
EXIT
F1
F2
F3
F4
MITSUBISHI

Digital Signal Strength

1. Tune to a Digital Channel
2. From the Option menu scroll down and highlight Digital Signal Strength
3. Press Enter

SNR Recommended Levels:

VSB = 15 to 35
64 QAM = 22 to 34
256 QAM = 27 to 37

Signal Quality Index (0-100)

Signal Noise Ratio

Example of Digital Signal Strength Display

	Tuner 0	Tuner 1	OOB Tuner
Frequency (MHz):	597	0	0
Signal Level:	8	0	0
Modulation:	256 QAM	Unknown	Unknown
Carrier Lock:	Locked	Unknown	Unknown
SQI	100	0	0
SNR	34.3	0	0
Correctable errors:	0	0	0
UnCorrectabel errors:	0	0	0

Reset / Initialization

SERVICE TIP:

Many customer generated symptoms, intermittent symptoms or no symptom found can be resolved by using the various Reset and Initialization options. Before visiting the customer's home ask the customer 1st to try the **System Reset** button on the control panel and if this does not resolve the issue, then they can perform an **A/V Reset** by pressing the **Guide** + **Format** buttons on the front panel at the same time. Then, if necessary, perform a user level **Initialization** by pressing **MENU-123-ENTER** with the remote. The customer should be made aware when settings and/or options will be reset. For more information, see the chart below.

NOTE: During Initialization, the set will reboot. Wait until the Power LED stops flashing before unplugging or powering ON the TV.

Reset / Initialization Guide

Reset Name	When to use	How to use	Resulting Action
Remote Control TV Layer Reset	Returns the remote control TV layer to normal operation.	1) Set the slide switch to **TV** position. 2) Press and hold the **POWER** button until it flashes twice then release the button. 3) Enter the code **0 0 9 3 5**.	Once the valid code has been entered and confirmed, the temot contrrol has been reset.
Remote Control TV Volume/Mute functions	Returns the volume and mute functions of the remote control to TV volume and mute for TV, Cable/Sat, VCR and DVD layers after the Audio Lock for AV Receiver feature has been used.	1) (1) Set the slide switch to **TV** position. 2) (2) Press and hold the **POWER** button until it flashes twice then release the button. 3) (3) Enter the code **9 9 3 VOL UP**.	The remote will now operate the TV's volume and mute when the slide switch is in the TV, CABLE/SAT, VCR or DVD positions.
A/V Memory Reset, by individual input	When the audio and or video settings for a single input seems to be incorrect.	**MENU --> Audio/Video--> AV Reset**	All Audio and Video settings for the individual input are reset except for the *Listen To, Language, Balance* and *Closed Caption* settings.
A/V Reset, all inputs	To reset audio and video adjustments for all inputs to the original factory settings.	While viewing the TV, press the front panel buttons **GUIDE** + **FORMAT** at the same time.	All Audio and Video settings are reset to the factory default settings. No other menu options are changed.
System Reset	To reset the TV when it does not turn on or off, does not respond to the remote control, front panel buttons or has other unusual symptoms.	Press the **SYSTEM RESET** button on the front panel with a pointed object such as a pencil or paperclip.	TV Micro Re-boots. Note: The changes made during the current TV-On period may be lost. All other previous user settings are not lost.
Initialize User Level	To reset all customer settings except V-Chip	Press **MENU - 123 - ENTER**	All customer menu options and A/V settings except V-Chip are reset to factory default.
Initialize - Service Level	To reset all customer settings	**MENU - 2470**. Highlight **INITIALIZE** and press **ENTER**	All customer menu options and A/V settings are reset to factory default.
V-Chip Password Bypass	If V-Chip password is not known	Press **QV + 9** at the same time.	Password will be bypassed. If in the V-Chip menu, enter a new password.
Unlock Front Panel	To unlock the front panel if it has been locked in the V-Chip Menu.	Press and hold the front panel **MENU** button for 8 seconds.	Front Panel becomes operational. Other V-Chip settings not changed. Note: Cannot be performed while in the Low Power mode and the set is Off.

INITIAL SETTINGS

Audio/Video	
Settings	
Video	
Picture Mode	Brilliant
Brilliant Contrast	100%
Brilliant Brightness	50%
Color	50%
Tint	50%
Sharpness	50%
Brilliant Color Temp.	High
Deep Field Imager (V39++)	On
Video Noise (Off-Low-Mid-High)	
Audio	(A/V Receiver)
Speakers	50%
Bass	50%
Treble	50%
Balance	Off
Surround	Stereo
Listen To (Analog only)	English
Language (Digital only)	Off
Level Sound	
PerfectColor	On
PerfectColor	On
PerfecTint	
Global	Medium
Video Mute	On
Film Mode	Auto
SharpEdge (V39++)	On
Lamp Mode	Standard
Blue Glow (V39++ only)	On if TV On
FX Gaming	Gray out
Game Mode	Off
Glasses L-R	Standard
Captions Menu	
Closed Captions	
Analog Captions	On if Mute
Background	Gray
Digital Captions	On if Mute
Digital Settings	
Font	Default
Font Size	Large
Font Color	White
Font Opacity	Translucent
Background Color	Black
Background Opacity	Translucent
Setup Menu	
Language	English
Scan	
Ant1 Air	--

Setup Menu (continued)	
Ant1 Cable	--
Ant2 Air	--
Ant2 Cable	--
Edit	
Channel in Memory	All
Name	--
FAV1 ~ FAV6	unchecked
Lock	Unlock
Clock	
Settings	Manual
Time	12:00PM
Date	1/01/2007
Time Zone	Eastern
Daylight Savings	Applies
Timer	
Timer	Off
Day	Daily
Time	12:00PM
Device	ANT-1
Channel	2
Energy Mode	Fast power on
Lamp Mode	Standard
Other Ratings	Gray out
Other ratings	Off
Inputs Menu	Standard
Name	
Ant-1	On
Ant-2	On
Input-1	Gray out
Input-2	Gray out
Input-3 (Front)	Gray out
Comp-1	Gray out
Comp-2	Gray out
Comp-3 (Front)	Gray out
HDMI-1	Gray out
HDMI-2	Gray out
HDMI-3	Gray out
HDMI-4 (Front)	Gray out
(Only V39+/V39++)	
Learn (Only V39+/V39++)	
A/V Receiver	
(Only V39+/V39++)	
Learn	Gray until auto sensing
Learn/Name	--
Assign Input 1	Gray out
Assign Input 2	Gray out
Assign Input 3	Gray out
Assign Input 4	Gray out

(Continued on Page 23)

INITIAL SETTINGS (continued)

Parental Lock Menu		Front Panel	
U.S. Ratings		Front Button Lock	Off
Lock	Off	**TV Volume**	30
TV Rating	TV-PG	**Format**	
Movie Rating	PG	Ant1, 2 (480i)	Stretch
Time		Ant1, 2 (HD Digital)	Standard
Lock by Time	Off	Input-1, 2, 3	Stretch
Lock Time	12:00PM	Comp-1, 2, 3	Standard
Unlock Time	12:00PM	HDMI-1, 2, 3, 4 (Video or PC)	Standard
		USB Photo	Standard

A. A/V Memory

Each of the external inputs has it’s own Audio/Video Memory. A change in an A/V setting at a specific input is stored in memory for that specific input.

B. A/V Reset

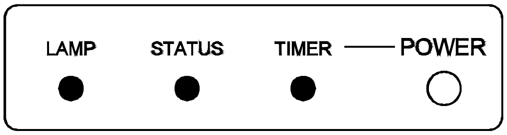
1. Pressing the front panel “GUIDE” and “FORMAT” buttons at the same time initializes all A/V Memories.
2. The AV Reset in the user’s menu initializes only the selected input’s A/V Memory.

A/V Initial Settings

A/V Memory	Ant	Input	Comp	HDMI (Video)	HDMI (PC)	HDMI (PC 3D)	USB (JPEG)
Picture Mode	Brilliant	Brilliant	Brilliant	Brilliant	Bright	Bright	Brilliant
Contrast	MAX	MAX	MAX	MAX	MAX	MAX	MAX
Brightness	Center	Center	Center	Center	Center	Center	Center
Color	Center	Center	Center	Center	Center	Center	Center
Tint	Center	Center	Center	Center	Center	Center	Center
Sharpness	Center	Center	Center	Center	Center	Center	Center
Color Temp.	High	High	High	High	High	High	High
Perfect Color	Center	Center	Center	Center	Center	Center	Center
Perfect Tint (V39+& V39++)	Center	Center	Center	Center	Center	Center	Center
Deep Field Imager (V39+&V39++)	On	On	On	On	n/a	n/a	On
Video Noise	Medium	Medium	Medium	Medium	Medium	Medium	Medium
Film Mode	Auto	Auto	Auto	Auto	n/a	n/a	n/a
SharpEdge (V39+&V39++)	On	On	On	On	On	Off	On
Bass	Center	Center	Center	Center	Center	Center	Center
Treble	Center	Center	Center	Center	Center	Center	Center
Balance	Center	Center	Center	Center	Center	Center	Center
Surround	Off	Off	Off	Off	Off	Off	Off
Listed To	Stereo	n/a	n/a	n/a	n/a	n/a	On
Level Sound	Off	Off	Off	Off	Off	Off	n/a
Language (Digital only)	English	n/a	n/a	n/a	n/a	n/a	n/a
Vertical Position	n/a	n/a	n/a	n/a	Center	Center	n/a
Horizontal Position	n/a	n/a	n/a	n/a	Center	Center	n/a

LED Indicator Diagnostics

The front panel LEDs provide an indication of the set's operation, and the possible cause of a malfunction. There are three front panel LEDs, "Power", "Status" and "Lamp". The LED display shows the current status or indicates a possible malfunction.



NORMAL LED INDICATIONS

Power/Timer LED	Status LED	Lamp LED	Condition
Off	Off	Off	Off (Standby)
Fast Blink Green	Off	Off	Initialization (40 - 60 seconds) (AC Off)
Off	Off	Green Blink	Lamp cooling (90 seconds after PTV Off) (Fan is still working)
Green	Off	Off	Power On
Slow Blinking Green	Off	Off	Power On Timer is set

ABNORMAL LED INDICATIONS

Power/Timer LED	Status LED	Lamp LED	Condition
Off	Yellow	Off	Temperature high - room too hot. Temperature sensor is disconnected
Off	Off	Blinking Yellow	Lamp cover open.
Off	Off	Red*	Lamp Failure - Lamp failed to turn On. Lamp is broken Lamp turns Off during P-ON
Off	Blinking Red	Off	Fan Stopped
Off	Red	Off	Circuit failure (short) Disconnected DVI cable, chassis to engine No LAMP-EN signal from Engine to turn the lamp On. Ballast UART communication problem.

* A red Lamp LED only occurs after 2 attempts to light the lamp.
Each attempt (pressing POWER) must be at least 65 seconds apart.
During each attempt ballast striking may be audible.

3. Error Code Operational Check

Note: The TV must be in "Shut Down" and not have been switched Off, to perform the Error Code Operational Check. When the TV is switched Off, the code automatically resets to "12" No Error.

Pressing the front panel "INPUT" and "MENU" buttons at the same time, and holding for 5 seconds, activates the Error Code Mode. The "TIMER LED" flashes denoting a two digit Error Code, or indicating no problem has occurred since the last Initialization.

Note: The front panel buttons must be used, NOT those on the Remote Control.

- The number of flashes indicates the value of the MSD (tens digit) of the Error Code.
- The flashing then pauses for approximately 1/2 second.
- The LED then flashes indicating the value of the LSD (ones digit) of the Error Code.
- The Error Code is repeated a total of 5 times.
  Example: If the Error Code is "23", the LED will flash two times, pause, and then flash three times.

4. Error Codes

The Error Code designations indicating malfunction, or no malfunction, are listed below:

ERROR CODES

Code	Description	Most Likely Cause
12	No Error found	
17	Communication loss, TV Micro - Engine (3.3V-ENG-SDA & SCL)	Engine Failure
18	Engine will not accept data (ASIC-READY signal from Engine is not detected).	Loss of 12V from PWB-POWER (Loose PE or PE2 connector); Bad Color Wheel (Loose J6 or J7 connector); Engine Failure
32	Lamp cover is open.	Lamp Cover Switch; Loose CD connector
34	Lamp turns Off while the TV is playing. Lamp failure (Lamp Enable signal from engine is lost)	Lamp Cartridge Failure
36	Exhaust Fan failed.	Loose J4 connector
37	Engine (DMD) fan failed.	Loose J5 connector
38	Lamp temperature abnormally high.	Poor Air Circulation; Loose J3 connector
39	DMD temperature abnormally high.	Poor Air Circulation
41	Standby Supply Short is detected. (5VS or 3.3VS)	PWB-MAIN Failure
42	Sirocco fan failed (Lamp fan).	Loose J8 connector
44	Check for disconnected DVI cable between PWB-DM and Engine. (Engine pulls DVI pin 14 Low)	DVI Cable unplugged
48	PON-SHORT 3.3V switched supply short	PWB-MAIN Failure
57	Ballast communication problem (ballast to chassis)	Loss of 340V from PWB-POWER (PL or CJ1 connector); Loose FB or CJ3 connector; Ballast Failure
61	No LAMP-EN output from the engine to the ballast	Bad Color Wheel (Loose J6 or J7 connector); Engine Failure
66	Lamp did not turn on at P-ON sequence (No Lamp inserted) (Disconnected cable between ballast and lamp) (Lamp-Enable goes to DM but not to Ballast)	Loose CJ4 connector; No Lamp Inserted; HV connection or lead wire to lamp; Lamp Cartridge Failure

Code 34(1) - Lamp Enable is generated to activate the Lamp

Code 57(2) - Lamp Enable is generated during P-ON sequence, but no Lamplit signal is received from the Ballast.

Code 61(3) - No Lamp Enable is received at the DM and Ballast.

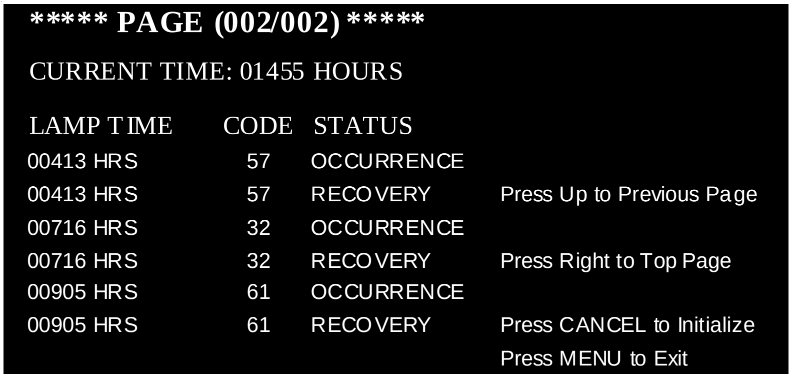
Code 66 (4) - Lamp enable is received at the DM but not at the Ballast.

4. Error Code Log

The Error Code Log - may be helpful to retrieve the code for an error the occurred in the past.
To access the Error Code Log: Press <MENU> <3-5-6-4>

Error Code Definitions

- Page - Current page number
- Current Time - total hours of operational use.
- Lamp Time - usage hours when the error occurred.
- Code - the specific Error Code that occurred.
- Two types:
  OCCURRENCE - when the error occurred.
  RECOVERY - when normal operation resumed.



```
***** PAGE (002/002) *****

CURRENT TIME: 01455 HOURS

LAMP TIME     CODE   STATUS
00413 HRS      57    OCCURRENCE
00413 HRS      57    RECOVERY      Press Up to Previous Page
00716 HRS      32    OCCURRENCE
00716 HRS      32    RECOVERY      Press Right to Top Page
00905 HRS      61    OCCURRENCE
00905 HRS      61    RECOVERY      Press CANCEL to Initialize
                                   Press MENU to Exit
```

NOTE: The Error Code Log is intended as a reference tool and is not meant to be used as a final determination of a defective part.

Color Wheel Replacement
(Part # 938P137010)

Symptoms

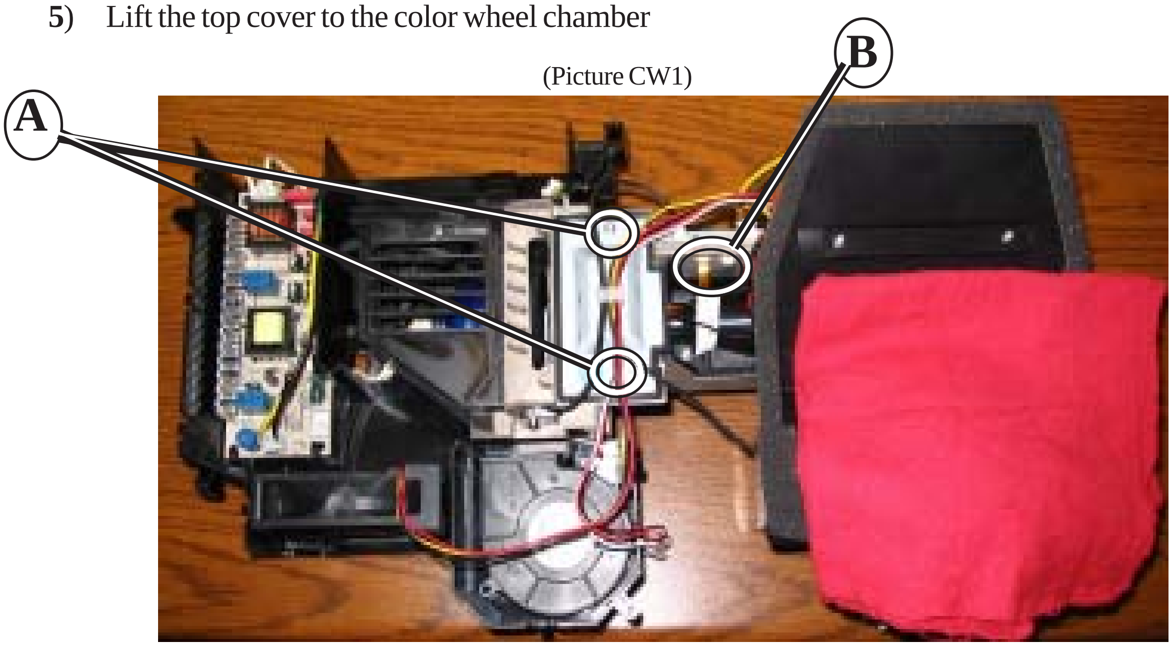
- Noise - Bad Motor Bearing
- Solarized Picture - Before replacing the Color Wheel, try adjusting the IDL (Index Delay), refer to page 27 for the alignment procedure.

Replacement Procedure

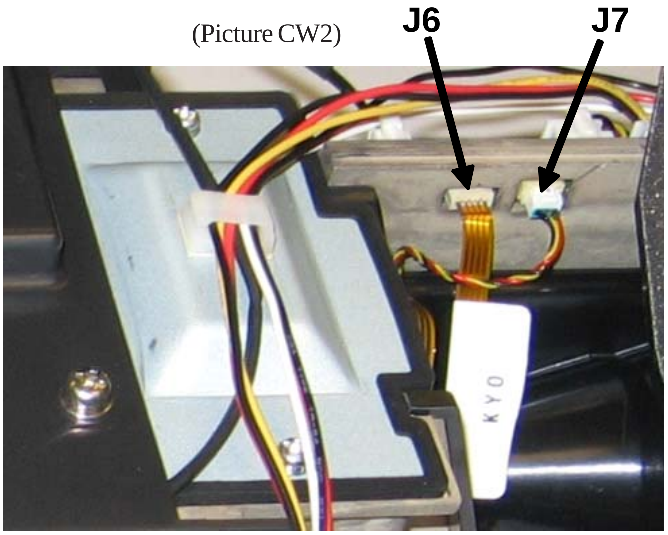
CAUTION: This procedure should be done in a dust free environment. Any dust entering into the color wheel chamber can cause abnormalities in the picture.

1) Remove Engine assembly from the back of the unit.
2) Cover the projection lens to protect it from scratches and remove the TOP DUCT
3) Remove the 2 screws **(A)** as shown in picture CW1
4) Disconnect the 2 connectors **(B)** as shown in picture CW1 (J6 & J7 in CW2)
5) Lift the top cover to the color wheel chamber

(Picture CW1)



(Picture CW2)



(Continued on next page)

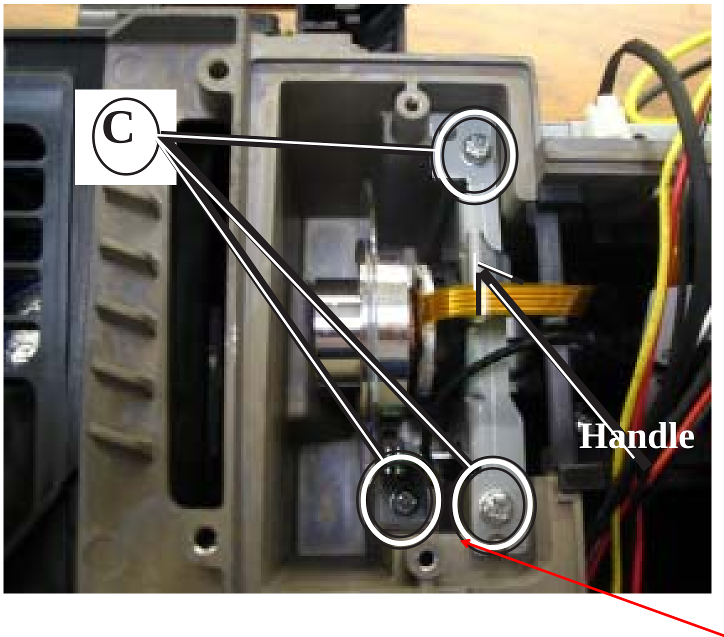
Replacement Procedure (continued)

6) Remove 3 screws **(C)** as shown in picture CW3

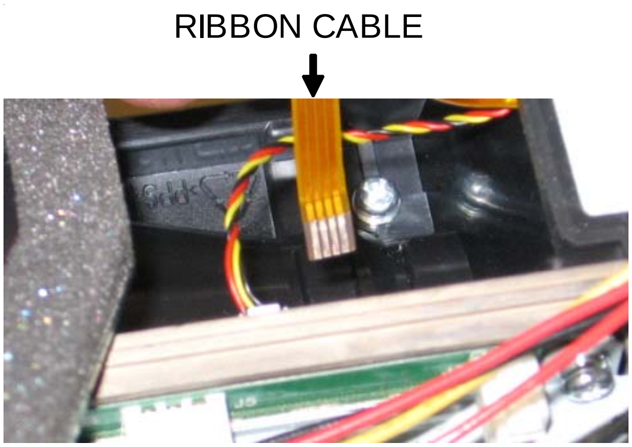
7) Hold the color wheel by the handle and pull it from the chamber.

8) Install the new color wheel and reverse the above procedure making sure to not scratch the wheel or allow dust inside the chamber
CAUTION: Do not twist the ribbon cable to J6 (the shiny silvery contacts must be facing up).

(Picture CW3)



Use magnetized screw driver and be careful to not drop screw near color wheel. Damage to color wheel could occur



(Picture CW4)

Alignment Procedure

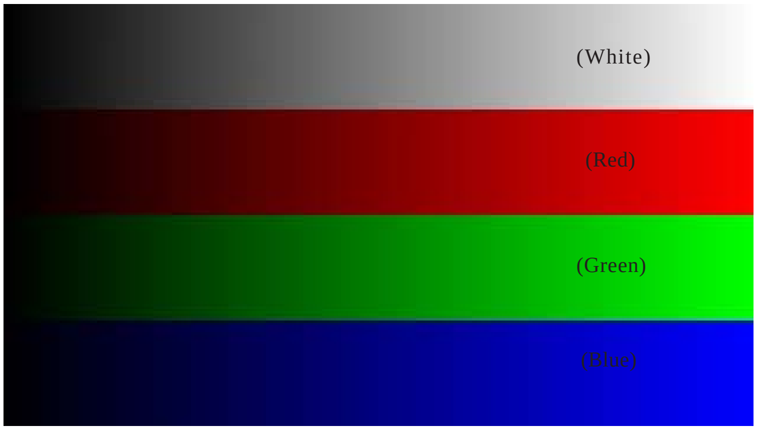
9) Once TV is reassembled and operating press **<MENU 2457>** followed by the **<PLAY>** button.

10) Press the **<RWND>** button 3 times to access the RAMP test pattern (as shown below).

11) Press Video button until item **#60.IDL** is shown.

12) Adjust IDL value until RAMP pattern color bars are smooth and solid.
(Hint: Final value is typically in the mid 30's)

(Ramp Test Pattern)



SERVICE ADJUSTMENTS

There are 3 Service Adjustments required in these models:

Electrical Adjustments (there are no mechanical adjustments)

- Horizontal Centering
- Vertical Centering
- 16 Point Keystone Alignment
- Letterbox Geometry
- 4:3 Geometry

Measuring Equipment and Jigs

- No additional Test Equipment is required.
- Remote Control

Test Signal

An internally generated Test Signal is used. No additional external signals are required.

Circuit Adjustment Mode

On these models, the Circuit Adjustment Mode is used for:

- Test Signal activation
- Horizontal and Vertical Centering
- Manual-alignment of keystone geometry
- The following adjustments may only be performed using the remote control.

Horizontal and Vertical Centering Adjustment

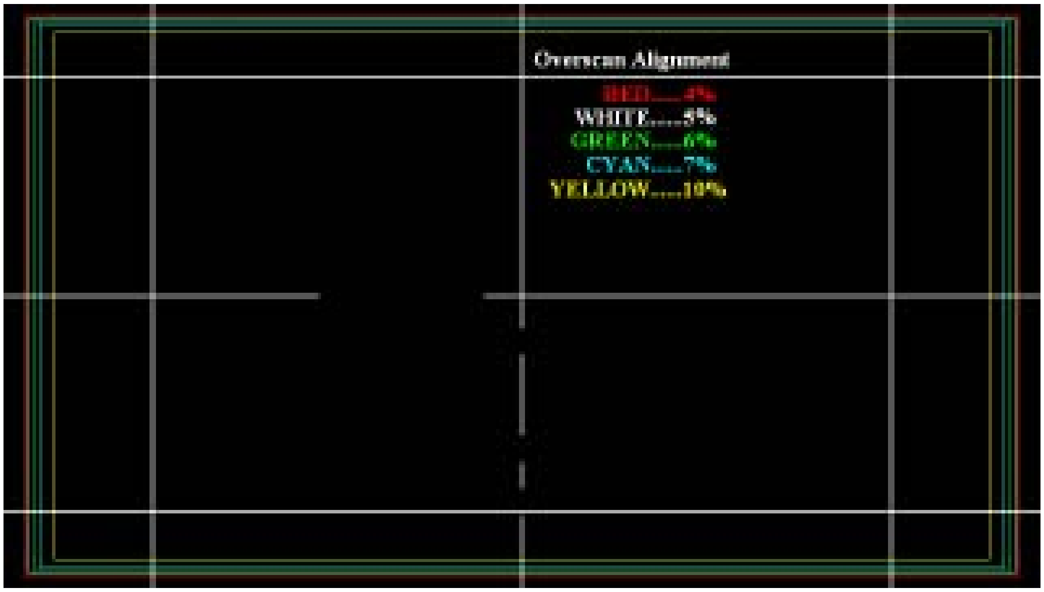
1. Activating the Adjustment Mode

1. Press the "MENU" button on a remote hand unit. (The "MENU" display will appear.)
2. Press the buttons "2", "4", "5" and "7" in that order. (Adjustment mode will appear.)

If not changed to the adjustment mode press "EXIT" and repeat steps 1 and 2.

2. Test Signal Activation (for H and V position adjustment)

When in the Circuit Adjustment mode, press "PLAY" to activate the internal test patterns, then use FAST FORWARD (►►) and REWIND (◄◄) to select the pattern shown below. This pattern is used for H&V electrical centering adjustments.



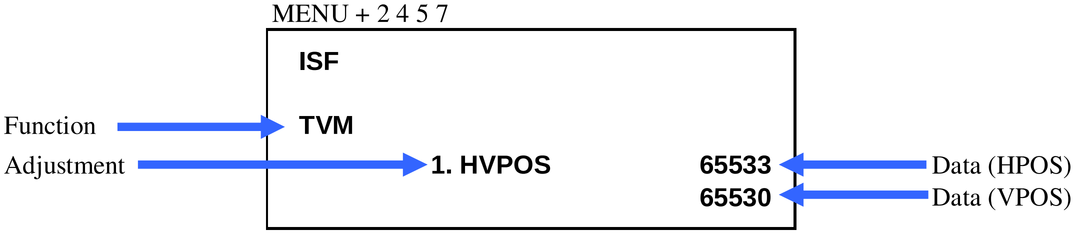
Centering Test Pattern

3. Adjustment Function Selection

Use the “AUDIO” button to select a specific Adjustment Function.
NOTE: There are 2 Service Functions on these models: “TVM” and the “ASIC” function. Service adjustments are performed in the TVM mode.

4. Adjustment Selection

Use the “VIDEO” button to select a specific electrical adjustment, “1.HVPOS”.


MENU + 2 4 5 7
ISF
Function
TVM
Adjustment
1. HVPOS
65533
Data (HPOS)
65530
Data (VPOS)

5. Adjusting Data

After selecting an adjustment item, use the DIRECTION (▼▲◀ ▶) buttons to change the adjustment.

- If a UP/DOWN (▼▲) button is pressed, the VPOS adjustment data changes.
- If a RIGHT/LEFT (◀ ▶) button is pressed, the HPOS adjustment data changes.

6. Saving data

Press “ENTER” to save the adjustment data in memory.
The display characters go red for approximately one second in this step.

Note: If the circuit adjustment mode is terminated without pressing “ENTER”, changes in adjustment data are not saved.

16-Point Keystone Alignment

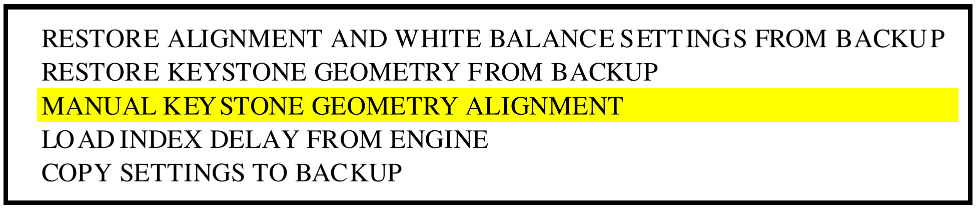
Summary:

- Calculates new geometry based on positional movement of 16 points
- Alignment does not effect the center of the picture, only the edge geometry
- When the adjustment mode is activated all 16 points will be set to default position
- The adjustment is not saved until the ENTER button has been pressed
- Pressing the ENTER button will save, however it will not indicate this in any manner
- For the adjustment to work properly all 16 points must be aligned before pressing the ENTER button

1. Activating the Adjustment Mode

1. Press the “MENU” button on a remote hand unit. (The “MENU” display will appear.)
2. Press the buttons “2”, “4”, “5”, “7”, pause and then press “0” (Data Selection Mode will appear)

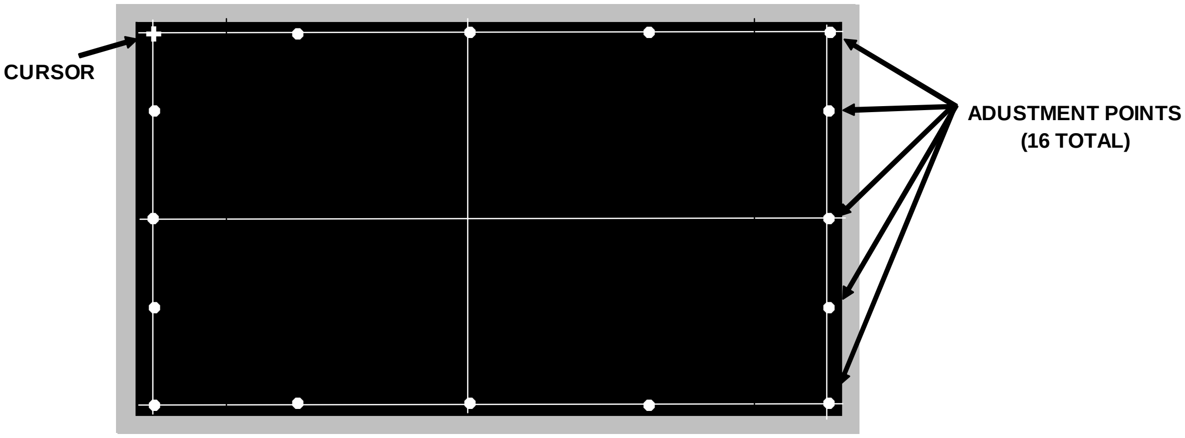
Data Selection Mode MENU + 2 4 5 7 + 0


RESTORE ALIGNMENT AND WHITE BALANCE SETTINGS FROM BACKUP
RESTORE KEYSTONE GEOMETRY FROM BACKUP
MANUAL KEYSTONE GEOMETRY ALIGNMENT
LOAD INDEX DELAY FROM ENGINE
COPY SETTINGS TO BACKUP

WARNING - only use "COPY SETTINGS TO BACKUP" after replacing the Optical Engine

3. Use the (▼▲) buttons to highlight “MANUAL KEYSTONE GEOMETRY ALIGNMENT” and press “ENTER”. The following pattern appears (see next page).

NOTE 1: If data is out of range, you may need to perform reset - Press (1) then ENTER. This nulls all correction data.
NOTE 2: To restore the original factory correction data, repeat steps 1 and 2, then select “RESTORE KEYSTONE GEOMETRY FROM BACK UP” and press “ENTER”.



2. Manual Keystone Geometry Alignment (There are 2 modes of adjustment: FULL and TOUCH UP)

FULL ADJUSTMENT MODE: Part 1

(***Note: if data is out of range, you may need to do a reset before starting - press "1" then "ENTER"***)

1. When entering the Keystone Adjustment mode you will see the test pattern shown in the drawing above. The point in the upper left corner will be a cross.
2. Starting from the 1st point (upper left corner) use the DIRECTION (▼▲◀▶) buttons to align the selected point (cross cursor) with the Bezel edge.
3. Use the FAST FORWARD (▶▶) button to move between each point or REWIND (◀◀) to go back.
4. Align each point in a straight line, use the Bezel as a reference. See example drawing in *Figure 1.* NOTE: Only the cross will move, the pattern will not change.
5. After all 16 points are aligned properly, pressing the (▶▶) button and the cursor will be at the start location.
6. Press "ENTER", correction data is automatically calculated data, saved and exits the adjustment mode.
7. Press "ENTER" to reenter the adjustment mode. The test pattern appears with the corrections applied.

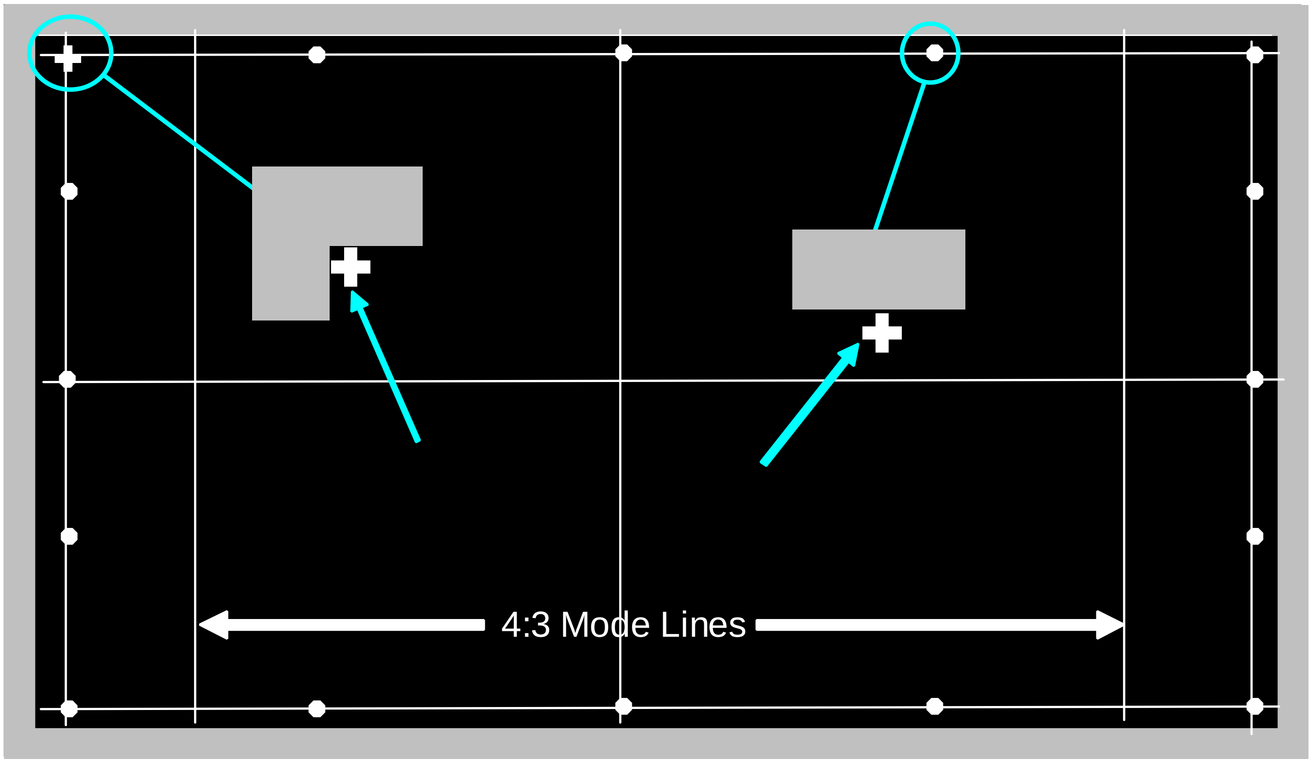


Figure 1: Adjustment Mode Pattern

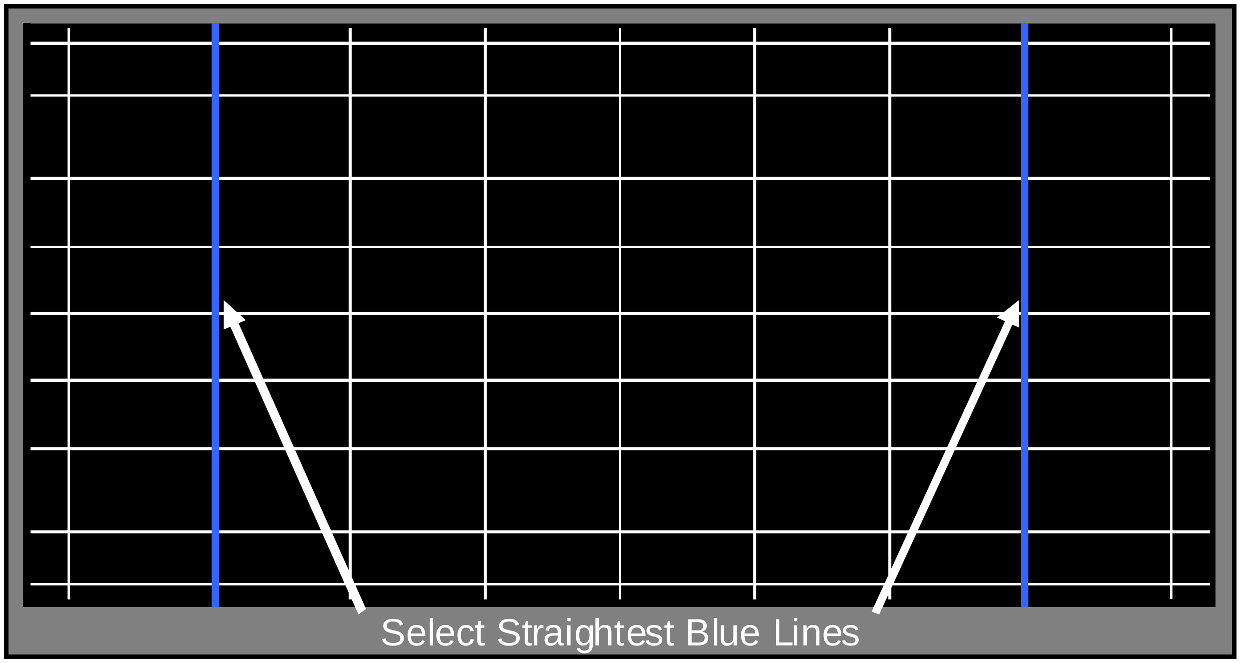


Figure 2: 4 by 3 Mode Pattern

Part 2 (4 by 3 & Letter Box Alignment Mode)

8. Pressing "VIDEO" activates the 4x3 alignment mode, refer to *Figure 2.*
9. Use the (►►) or (◄◄) buttons to step through 11 preset 4x3 patterns. Select the pattern with the straightest blue vertical lines that are parallel to the Bezel edge.
10. Press "VIDEO" to activate the Top Letter Box alignment mode, refer to *Figure 3.*
11. Use the (►►) or (◄◄) buttons to step through 15 preset alignment settings. Select the setting with the straightest top letter box line (red line) that is parallel to the Bezel edge.

(Continued on the following page)

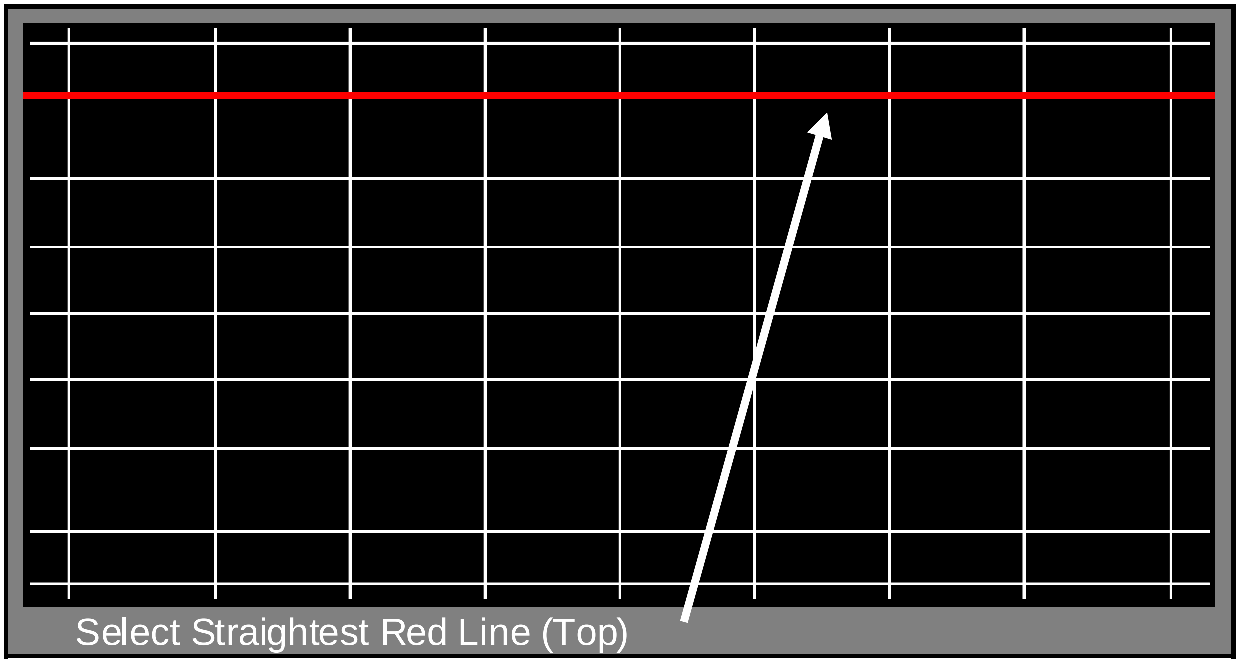


Figure 3: Top Letter Box Mode Pattern

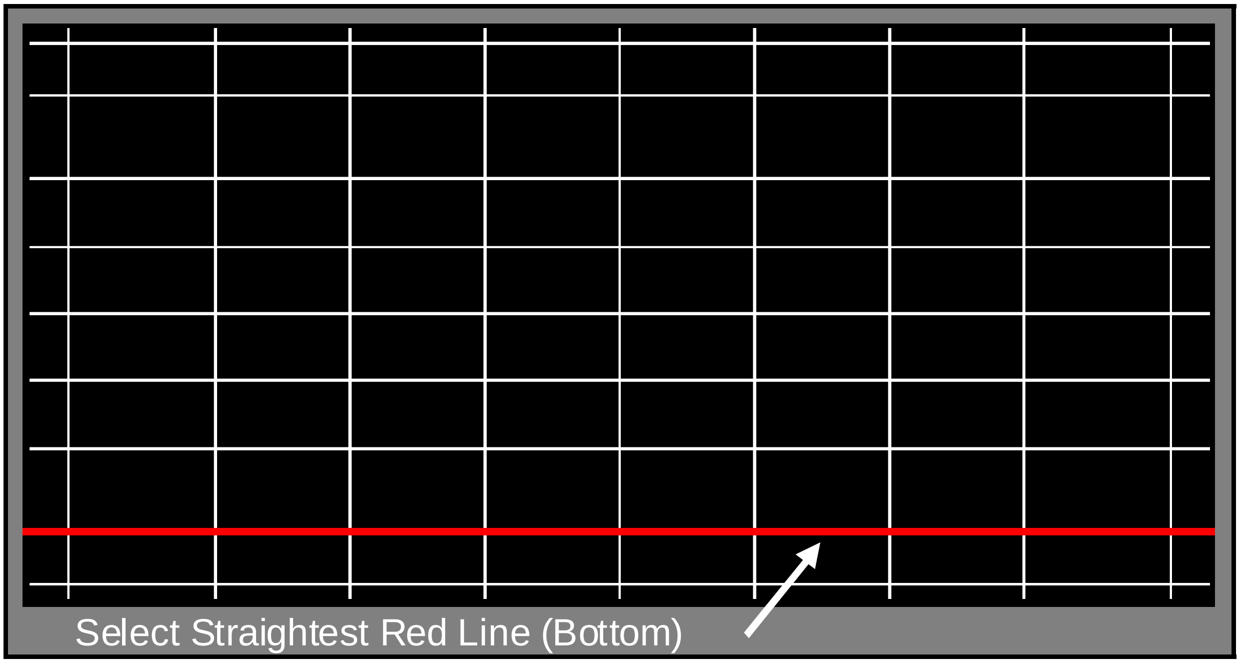


Figure 4: Bottom Letter Box Mode Pattern

12. Press "VIDEO" to activate the Bottom Letter Box alignment mode, refer to *Figure 4*.
13. Use the (►►) or (◄◄) buttons to step through 10 preset alignment settings. Pick the setting with straightest bottom letter box line that is parallel to the Bezel edge..
14. Press 'ENTER" to save and exit the mode.

Part 3 (Touch Up Alignment Mode)

After Manual Data has been entered the Touch Up mode may be used.

15. Enter the MANUAL KEYSTONE GEOMETRY ALIGNMENT mode.
16. Use (►►) or (◄◄) to move the cursor to the point you want to touch up. Use the (▼▲◄►) keys to adjust that point.
17. Press "INFO" to see the change, the change is not saved at this time.
18. Repeat at additional points as needed.
19. Press "ENTER" to save changes and exit the mode.

Touch Up 4x3 or Letter Box patterns

20: Enter the MANUAL KEYSTONE GEOMETRY ALIGNMENT mode and use the "VIDEO" button to enter the 4x3 or Letter Box mode.

20: Select another pattern and press "ENTER" to save and exit the mode.

Data Transfer

After entering the Service Mode (MENU-2-4-5-7) and pressing (0), besides *MANUAL KEYSTONE GEOMETRY ALIGNMENT* four data transfer choices are listed on screen.

- *RESTORE ALIGNMENT AND WHITE BALANCE SETTINGS* - copies HVPOS, White Balance and Engine Color Wheel Delay from the Optical Engine to the PWB-MAIN..
- *RESTORE KEYSTONE GEOMETRY FROM BACKUP* - copies manual adjustment data from Optical Engine to PWB-MAIN.
- *LOAD INDEX DELAY FROM ENGINE* - copies Engine data to PWB-MAIN..
- *Copy SETTINGS TO BACKUP* - **WARNING, use only after replacing the OPTICAL ENGINE.**

After Engine Replacement

1) *Load Index Data from Engine.*
2) *Copy Settings to Backup*

After PWB-MAIN Replacement

1) *Restore Alignment and White Balance from Backup*
2) Restore Keystone Geometry Alignment.
2) *Load Index Delay from Engine*.

Using Lead Free Solder

Pb Solder

The above symbol indicates Lead (Pb) Free solder was used during the construction of PWBs. **Only Lead Free solder** should be used when servicing these PWBs.

Solder must be compatible with that used by the manufacturer. Leaded solder can not be used on PWBs manufactured with Pb-free solder. The Mitsubishi standard for service requires the use of Tin-Silver-Copper (Sn-96.5, Ag-3.0, Cu-0.5). It can be obtained through the Parts Department.
Order part number: **PB FREE SOLDER**

Lead Free solder has a higher melting point, and does not “wet” as well as leaded solder. This means it does not adhere as readily to the solder iron tip, and the surface to be soldered. To counteract this, the flux used is more corrosive.

The following cautions must be taken when using Pb Free solder.

- Higher temperatures can cause the PWB to warp, detaching surface mount components.
- Higher temperatures may cause thermal damage to components.
- Higher temperatures can cause plastics, such as connectors, relays, LEDs electrolytic capacitors, etc. to melt or warp.
- Higher temperatures can cause surface oxidation resulting in poor solder spread-ability and wet-ability.
- The flux is more corrosive.
- The time required for a good solder connection may take longer.
- Poor wet-ability can cause solder balls.
- Higher temperatures can cause flux spattering.
- Soldering iron tip life is shortened.
- Dull finish solder joints (not shiny) can appear to be a “cold” solder joint.

In general a tip temperature of 700° F will usually provide good results.

Displays used to indicate Pb-free

PCBs will be marked, indicating the level of Pb-free construction. *Table 1* defines the levels by phase and shows the different symbols that will be displayed on the PCB. Additionally, a PCB constructed using Pb-free solder may be simply marked **LFS**.

When possible, the indication will be placed close to the part number that is screened onto the PCB (not the part label). *Figure 1* is an example of a PCB showing the display and its location.

Pb-Free Phase	Definition	Display	Short Display (When the area is too small)
Phase-1	PCB's constructed using Pb-free solder.	Pb Solder	Pb S
Phase-2	Solder, PCB surface finishing and component lead plating is Pb-free. Components may have internal Pb.	Pb Joints	Pb J
Phase-3	Solder, PCB surface finishing and components are Pb-free. (100% Pb-free)	Pb PCA	Pb P

Table 1: Pb-Free Phases and Symbols

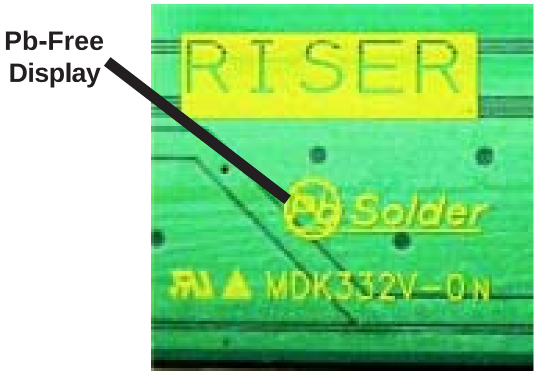


Figure 2: Pb-Free display on PWB

CHIP PARTS REPLACEMENT

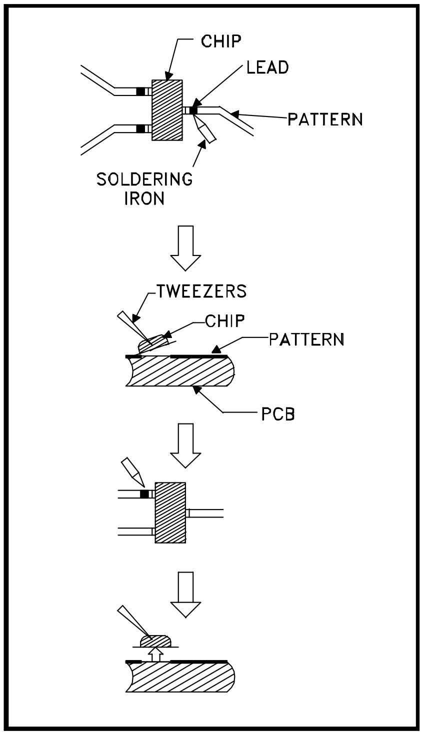
Some resistors, shorting jumpers (0 Ohm resistors), ceramic capacitors, transistors and diodes are chip parts. The following precautions should be taken when replacing these parts.

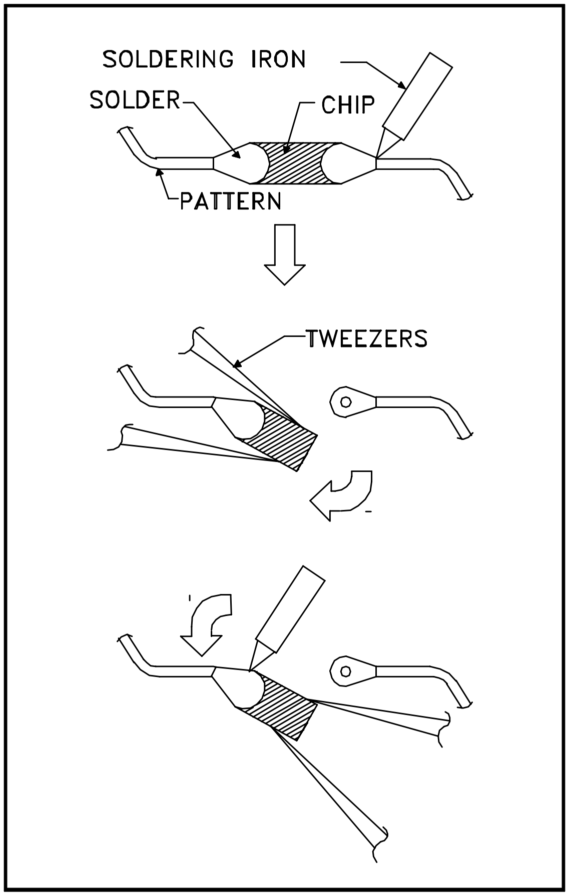
Cautions:

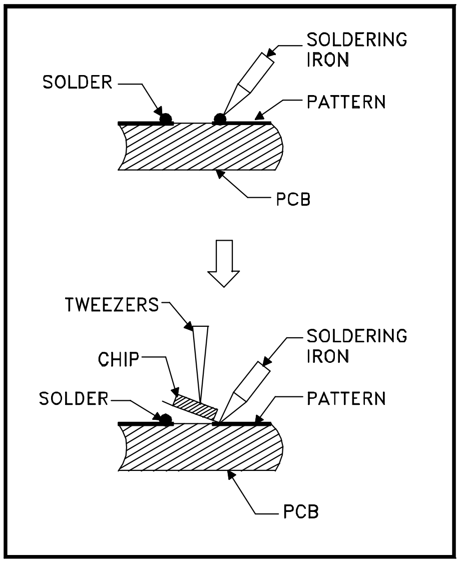
1. Use a fine tipped, well insulated soldering iron and tweezers.
2. Melt the solder and remove the chip parts carefully so as not to tear the copper foil from the printed circuit board.
3. Discard removed chips; do not reuse them.
4. Do not apply heat for more than 3 (three) seconds to new chip parts.
5. Avoid using a rubbing stroke when soldering.
6. Take care not to scratch, or damage the chip parts when soldering.
7. Supplementary cementing is not required.

Chip Parts Removal (Resistors, Capacitors, etc.)

1. Grasp the part with tweezers. Melt the solder at both sides alternately, and remove one side of the part with a twisting motion.
2. Melt the solder at the other side and remove the part.


CHIP
LEAD
PATTERN
SOLDERING IRON
TWEEZERS
CHIP
PATTERN
PCB


SOLDERING IRON
SOLDER
CHIP
PATTERN
TWEEZERS


SOLDER
SOLDERING IRON
PATTERN
PCB
TWEEZERS
CHIP
SOLDER
SOLDERING IRON
PATTERN
PCB

REPLACEMENT PARTS

Parts Ordering

To expedite delivery of replacement parts orders, specify the following:

1. Model Number/Serial Number
2. Part Number and description
3. Quantity

Note: Unless complete information is supplied, delay in processing of orders will result.

Critical and Warranty Parts Designation

Critical Electrical Components are indicated by **Bold Type** and a ⚠ icon in the Parts List, and in the schematic diagrams by a red hatch ▨ and a ⚠**.**

Parts Tolerance Codes

Refer to the following chart for tolerance characteristics of electrical components.

MARK	B	C	D	F	G	J	K
Tolerance %	± 0.1	± 0.25	± 0.5	± 1	± 2	± 5	± 10

MARK	M	N	V	X	Z	P	Q
Tolerance %	± 20	± 30	± 10	+ 40 -20	+ 80 -20	+ 100 - 0	+ 30 -10

MARK	M	N	V	X	Z
Tolerance (pF)	± 0.1	± 0.25	± 0.5	± 1	± 2

QUICK REFERENCE FOR COMMON PARTS

ALL MODELS

PART	PART NUMBER
Lamp-Cartridge	**915B403001**
Lamp Ballast	938P127010
Speaker	480P084010
Fan-Exhaust	299P335010
Fan-Scirocco (Lamp)	299P321010
Fan-Engine (DMD)	299P339010
Sensor-Temperature	299P337010
PWB-Sw-Lamp	935D985001
Module-Color-Wheel	938P137010

PRINTED CIRCUIT BOARDS

MODEL	PWB-MAIN	PWB-POWER	PWB-FRONT1	PWB-CONT1	PWB-PREAMP
WD-60735	934C282001	934C283001	935D981001	935D982001	935D984001
WD-60C8	"	"	"	"	"
WD-65735	"	"	"	"	"
WD-65736	934C282002	"	"	"	935D984002
WD-65835	934C282003	"	"	935D982002	"
WD-65C8	934C282001	"	"	935D982001	935D984001
WD-73735	"	"	"	"	"
WD-73736	934C282002	"	"	"	935D984002
WD-73835	934C282003	"	"	935D982002	"
WD-73C8	934C282001	"	"	935D982001	935D984001

OPTICAL ENGINE & MISC. PARTS

MODEL	OPTICAL ENGINE	FRESNEL LENS	LENTICULAR SCREEN	MIRROR KIT	REMOTE
WD-60735	938P126040	491P2180010	491P217010	KIT-MIR 767D086010	291P137010
WD-60C8	"	"	"	"	"
WD- 65735	938P126050	491P218020	491P217020	KIT-MIR 767D086020	"
WD-65736	"	"	"	"	"
WD-65835 w/DB	955B378001	"	"	KIT-MIR WD65835	290P137020
WD-65C8	938P126050	"	"	KIT-MIR 767D086020	291P137010
WD-73735	938P126060	491P218030	491P217030	KIT-MIR WD73735	"
WD-73736	"	"	"	"	"
WD-73C8	"	"	"	"	"
WD-73835 w/DB	955B378002	"	"	"	290P137020

INTEGRATED CIRCUITS

Ref #	Part #	Part Name & Description	[#]	⚠
IC102	276P325010	IC-C-MOS - MAX4232AKA+T/SOT-23+		
IC2001	276P460010	IC-C-MOS - SiI9125CTU		
IC2004	276P551010	IC-C-MOS - AT24C02BN-SH-T	dehi	
IC2005	271P251010	IC - MM1661JHBE		
IC2101	276P461010	IC-C-MOS - SiI9185CTU		
IC2102	271P251010	IC - MM1661JHBE		
IC2201	271P255010	IC - RClamp0524P.TCT		
IC2202	271P255010	IC - RClamp0524P.TCT		
IC2301	271P255010	IC - RClamp0524P.TCT		
IC2302	271P255010	IC - RClamp0524P.TCT		
IC2401	271P255010	IC - RClamp0524P.TCT		
IC2402	271P255010	IC - RClamp0524P.TCT		
IC2A02	271P255010	IC - RClamp0524P.TCT	dehi	
IC2A03	271P255010	IC - RClamp0524P.TCT	dehi	
IC2A04	271P255010	IC - RClamp0524P.TCT	dehi	
IC2E01	276P519010	IC-C-MOS - 74HC132DB	dehi	
IC2J01	276P459010	IC-C-MOS - MM1783BQ		
IC3A01	276P503010	IC-C-MOS - AK5358AETP		
IC3D03	276P498010	IC-C-MOS - AK4341ETP		
IC3E02	276P464010	IC - TDA8932BTW/N2		
IC3F01	271P209010	IC - AN5832SA		
IC3P01	276P518010	IC - NJU26204V-TE2		
IC7A01	276P576010	IC-C-MOS - UPD78F1178GF(S)-GAT-AX		
IC7A03	276P578010	IC-C-MOS - MM3383DNRE		
IC7C00	276P336010	IC-C-MOS - SiI7170CMSU		
IC7C01	276P337010	IC-C-MOS - PLL701-21SC-R		
IC7C02	271P251020	IC - MM1663DHBE		
IC7E01	276P197010	IC-C-MOS - AD9981KST-80		
IC7F00	276P466010	IC-C-MOS - NT5DS8M16FS-5T		
IC7F01	276P466010	IC-C-MOS - NT5DS8M16FS-5T		
IC7F02	276P466010	IC-C-MOS - NT5DS8M16FS-5T		
IC7F03	276P466010	IC-C-MOS - NT5DS8M16FS-5T		
IC7F04	271P033020	IC - LP2996LQNOPB		
IC7G00	276P632010	IC-C-MOS - MB8AA1700PBH-GE1		
IC7G01	271P216010	IC - SC4215ISTRT		
IC7N21	276P525010	IC-C-MOS - MAX4489ASA+T	dehi	
IC8001	276P441010	IC-C-MOS - X215H48AGA21HG(X240H)		
IC8002	270P706020	IC - MAX823REUK		
IC8010	271P296010	IC-REGULATOR - SC4211STRT		
IC8011	271P216010	IC - SC4215ISTRT		
IC8102	276P492020	IC-C-MOS - NT5DS32M16BS-5T		
IC8103	276P492020	IC-C-MOS - NT5DS32M16BS-5T		
IC8205	271P171010	IC - MIC2040-1YMM		
IC8307	276P485010	IC-C-MOS - SC16C652BIB48		
IC8312	276P333010	IC-C-MOS - LCMX0256C3TN10C		
IC8322	276P600010	IC-C-MOS - KFG1216U2B-DIB60		
IC8501	276P628010	IC-C-MOS - PL671-33-120SC-R		
IC9A10	**267P175030**	**HIC - STR-W6734**		⚠
IC9A20	**271P142010**	**IC - RT9H301C**		⚠
IC9C51	271P251020	IC - MM1663DHBE		
IC9G01	271P253010	IC - AOZ1010AI		
IC9G02	271P254010	IC - ISL6545ACBZ-TS2698		
IC9G03	271P254010	IC - ISL6545ACBZ-TS2698		
IC9G05	271P272010	IC - NJM2386ADL3-09		
IC9G80	271P171010	IC - MIC2040-1YMM		

CHIP Type Transistors (Listed by Part No.)

Part No.	Description	[#]
261P842080	2SC3052-T112-1E;F	
261P844010	RT1N436C-T112-1	dehi
261P845010	RT1P241C-T1112-1	
261P874010	FDS8896	
261P875010	FDS8984	
261P876010	FDS6298	
261P877010	FDC655BN	
261P881010	2SB1424T100R	dehi
261P889010	ISA1235AC1-T112A-1E,1F	

TRANSISTORS

Conventional Transistors (By Ref #)

Ref #	Part #	Part Name & Description	[#]
Q9A12	261P227010	TR - FQPF27P06	

DIODES

Ref #	Part #	Part Name & Description	[#]	⚠
D2103	262P852010	D-CHIP - BAT54S		
D2201	262P840090	D-CHIP - MAZ80510H		
D2202	262P830010	D-CHIP - MC2850-T111-1	dehi	
D2202	262P830010	D-CHIP - MC2850-T111-1	abcfgj	
D2203	262P830010	D-CHIP - MC2850-T111-1	dehi	
D2203	262P830010	D-CHIP - MC2850-T111-1	abcfgj	
D2301	262P840090	D-CHIP - MAZ80510H		
D2302	262P830010	D-CHIP - MC2850-T111-1	dehi	
D2302	262P830010	D-CHIP - MC2850-T111-1	abcfgj	
D2303	262P830010	D-CHIP - MC2850-T111-1	dehi	
D2303	262P830010	D-CHIP - MC2850-T111-1	abcfgj	
D2401	262P840090	D-CHIP - MAZ80510H		
D2402	262P830010	D-CHIP - MC2850-T111-1	dehi	
D2402	262P830010	D-CHIP - MC2850-T111-1	abcfgj	
D2403	262P830010	D-CHIP - MC2850-T111-1	dehi	
D2403	262P830010	D-CHIP - MC2850-T111-1	abcfgj	
D2A04	262P840090	D-CHIP - MAZ80510H	dehi	
D2E01	262P830010	D-CHIP - MC2850-T111-1	dehi	
D2J03	262P163010	D-CHIP - MALS068X0L		
D2J04	262P163010	D-CHIP - MALS068X0L		
D2J06	262P163010	D-CHIP - MALS068X0L		
D7A01	262P828010	D-CHIP - MC2838-T112-1		
D7A04	262P828010	D-CHIP - MC2838-T112-1		
D7A05	262P828010	D-CHIP - MC2838-T112-1		
D7L01	264P212020	D-LED - LN31GPH	abcdfghj	
D7L02	264P584020	DIODE-LE - SML1216W-C,D	abcdfghj	
D7L03	264P584020	DIODE-LE - SML1216W-C,D	abcdfghj	
D7L05	264P212020	D-LED - LN31GPH	ei	
D7L06	264P584020	DIODE-LE - SML1216W-C,D	ei	
D7L07	264P584020	DIODE-LE - SML1216W-C,D	ei	
D7N21	268P100010	DIODE-PHOTO - SFH235FA	dehi	
D7N22	262P828010	D-CHIP - MC2838-T112-1	dehi	
D7T01	262P855010	D-LE-CHIP - LB E6SG-S2U1-35-1	ei	
D7T02	262P855010	D-LE-CHIP - LB E6SG-S2U1-35-1	ei	
D7T03	262P855010	D-LE-CHIP - LB E6SG-S2U1-35-1	ei	
D7T04	262P855010	D-LE-CHIP - LB E6SG-S2U1-35-1	ei	
D7T05	262P855010	D-LE-CHIP - LB E6SG-S2U1-35-1	ei	
D7T06	262P855010	D-LE-CHIP - LB E6SG-S2U1-35-1	ei	
D7T07	262P855010	D-LE-CHIP - LB E6SG-S2U1-35-1	ei	

Ref #	Part #	Part Name & Description	[#]	⚠
D7T08	262P855010	D-LE-CHIP - LB E6SG-S2U1-35-1	ei	
D7T09	262P855010	D-LE-CHIP - LB E6SG-S2U1-35-1	ei	
D7T10	262P855010	D-LE-CHIP - LB E6SG-S2U1-35-1	ei	
D7T21	262P855010	D-LE-CHIP - LB E6SG-S2U1-35-1	ei	
D7T22	262P855010	D-LE-CHIP - LB E6SG-S2U1-35-1	ei	
D7T23	262P855010	D-LE-CHIP - LB E6SG-S2U1-35-1	ei	
D7T24	262P855010	D-LE-CHIP - LB E6SG-S2U1-35-1	ei	
D7T25	262P855010	D-LE-CHIP - LB E6SG-S2U1-35-1	ei	
D7T26	262P855010	D-LE-CHIP - LB E6SG-S2U1-35-1	ei	
D7T27	262P855010	D-LE-CHIP - LB E6SG-S2U1-35-1	ei	
D7T28	262P855010	D-LE-CHIP - LB E6SG-S2U1-35-1	ei	
D7T29	262P855010	D-LE-CHIP - LB E6SG-S2U1-35-1	ei	
D7T30	262P855010	D-LE-CHIP - LB E6SG-S2U1-35-1	ei	
D8203	264P846010	D-CHIP - MA732		
D8204	264P846010	D-CHIP - MA732		
D9A00	262P162020	DIODE - D3SB80-7001		
D9A02	264P045080	DIODE - 1S2076A/1S2471OM		
D9A03	264P775080	DIODE - MTZJ6.2CQLF		
D9A04	264P045080	DIODE - 1S2076A/1S2471OM		
D9A05	262P170010	DIODE - SARS01		
D9A07	262P158020	DIODE - S3V60-5009F40		
D9A08	262P158020	DIODE - S3V60-5009F40		
D9A18	264P045080	DIODE - 1S2076A/1S2471OM		
D9A19	264P045080	DIODE - 1S2076A/1S2471OM		
D9A20	264P045080	DIODE - 1S2076A/1S2471OM		
D9A22	264P775080	DIODE - MTZJ6.2CQLF		
D9A23	262P085010	DIODE - 11EFS2N-TA2B5		
D9A24	262P085010	DIODE - 11EFS2N-TA2B5		
D9A25	262P085010	DIODE - 11EFS2N-TA2B5		
D9A26	**262P194010**	**DIODE - FCHS10A065-15A**		!
D9A31	262P084020	DIODE - 31DQ09-FC5		
D9C50	262P830010	D-CHIP - MC2850-T111-1		
D9C51	262P830010	D-CHIP - MC2850-T111-1		
D9C52	262P830010	D-CHIP - MC2850-T111-1		
D9C53	262P830010	D-CHIP - MC2850-T111-1		
D9C54	262P830010	D-CHIP - MC2850-T111-1		
D9G01	262P852010	D-CHIP - BAT54S		
D9G02	262P852010	D-CHIP - BAT54S		
D9G03	262P842010	D-CHIP - MAZ81500H		
D9G04	262P842020	D-CHIP - MAZ81600H		
D9G06	262P828010	D-CHIP - MC2838-T112-1		
D9G15	262P841010	D-CHIP - MAZ80620H		
D9G19	262P853060	DIODE - 1N748A		
D9G80	262P163010	D-CHIP - MALS068X0L		

COILS

Ref #	Part #	Part Name & Description	[#]	⚠
L102	409P975010	CHIP BEADS - MPZ2012S221A		
L103	325C420070	COIL-CHIP - 10MH-K		
L104	409P974010	CHIP BEADS - MMZ1608S601A		
L105	325C420070	COIL-CHIP - 10MH-K		
L106	325C420070	COIL-CHIP - 10MH-K		
L117	409P974010	CHIP BEADS - MMZ1608S601A		
L118	409P974010	CHIP BEADS - MMZ1608S601A		
L2001	409P974010	CHIP BEADS - MMZ1608S601A	dehi	
L2002	409P974010	CHIP BEADS - MMZ1608S601A		
L2003	409P974010	CHIP BEADS - MMZ1608S601A		
L2004	409P974010	CHIP BEADS - MMZ1608S601A		
L2005	409P974010	CHIP BEADS - MMZ1608S601A		
L2006	409P974010	CHIP BEADS - MMZ1608S601A		
L2007	409P974010	CHIP BEADS - MMZ1608S601A		
L2008	409P974010	CHIP BEADS - MMZ1608S601A		
L2009	409P974010	CHIP BEADS - MMZ1608S601A		
L2101	409P974010	CHIP BEADS - MMZ1608S601A		
L2102	409P974010	CHIP BEADS - MMZ1608S601A		
L2104	409P974010	CHIP BEADS - MMZ1608S601A		
L2E00	409P876040	EMI-F-CHIP - CNF20C221S/ CKD510JB1H221S	dehi	
L2EA0	409P974010	CHIP BEADS - MMZ1608S601A	ei	
L2EA1	409P974010	CHIP BEADS - MMZ1608S601A	ei	
L2EA2	409P974010	CHIP BEADS - MMZ1608S601A	ei	
L2J01	409P974010	CHIP BEADS - MMZ1608S601A		
L2J02	409P974010	CHIP BEADS - MMZ1608S601A		
L2J03	409P974010	CHIP BEADS - MMZ1608S601A		
L2J04	321C114010	COIL-RF - 2200MH-J		
L3A02	409P974010	CHIP BEADS - MMZ1608S601A		
L3A03	409P974010	CHIP BEADS - MMZ1608S601A		
L3D08	409P974010	CHIP BEADS - MMZ1608S601A		
L3D09	409P974010	CHIP BEADS - MMZ1608S601A		
L3E02	409P975010	CHIP BEADS - MPZ2012S221A		
L3E04	351P317010	COIL-CHOKE-CHIP - PLC-1055-220S		
L3E05	351P317010	COIL-CHOKE-CHIP - PLC-1055-220S		
L3F01	409P974010	CHIP BEADS - MMZ1608S601A		
L3P01	409P974010	CHIP BEADS - MMZ1608S601A		
L3P02	409P974010	CHIP BEADS - MMZ1608S601A		
L3P03	409P974010	CHIP BEADS - MMZ1608S601A		
L3S01	409P974010	CHIP BEADS - MMZ1608S601A		
L7A01	409P974010	CHIP BEADS - MMZ1608S601A		
L7A02	409P974010	CHIP BEADS - MMZ1608S601A		
L7C00	409P974010	CHIP BEADS - MMZ1608S601A		
L7C01	409P974010	CHIP BEADS - MMZ1608S601A		
L7C02	409P974010	CHIP BEADS - MMZ1608S601A		
L7C03	409P974010	CHIP BEADS - MMZ1608S601A		
L7C04	409P974010	CHIP BEADS - MMZ1608S601A		
L7C05	409P974010	CHIP BEADS - MMZ1608S601A		
L7C06	409P974010	CHIP BEADS - MMZ1608S601A		
L7C07	409P974010	CHIP BEADS - MMZ1608S601A		
L7C08	409P974010	CHIP BEADS - MMZ1608S601A		
L7C14	409P975010	CHIP BEADS - MPZ2012S221A		
L7C24	409P974010	CHIP BEADS - MMZ1608S601A		
L7C46	409P974010	CHIP BEADS - MMZ1608S601A		
L7C94	409P974010	CHIP BEADS - MMZ1608S601A		
L7E01	409P974010	CHIP BEADS - MMZ1608S601A		
L7E02	325C420070	COIL-CHIP - 10MH-K		
L7E03	409P975010	CHIP BEADS - MPZ2012S221A		
L7E04	325C410070	COIL-CHIP - 3.3MH-J		
L7E05	325C410050	COIL-CHIP - 2.2MH-J		
L7E06	409P974010	CHIP BEADS - MMZ1608S601A		
L7E07	325C410070	COIL-CHIP - 3.3MH-J		
L7F00	409P975010	CHIP BEADS - MPZ2012S221A		
L7F01	409P975010	CHIP BEADS - MPZ2012S221A		
L7G00	409P974010	CHIP BEADS - MMZ1608S601A		
L7G01	409P974010	CHIP BEADS - MMZ1608S601A		
L7G02	409P974010	CHIP BEADS - MMZ1608S601A		
L7G03	409P974010	CHIP BEADS - MMZ1608S601A		
L7G12	409P975010	CHIP BEADS - MPZ2012S221A		
L7G25	409P975010	CHIP BEADS - MPZ2012S221A		

MODELS: WD-60735 / WD-60C8 / WD-65735 / WD-65736 / WD-65835 / WD-65C8 / WD-73735 / WD-73736 / WD-73835 / WD-73C8

[#] Model Legend: (a) WD-60735, (b) WD-60C8, (c) WD-65735, (d) WD-65736, (e) WD-65835, (f) WD-65C8, (g), WD-73735, (h) WD-73736, (i) WD-73835, (j) WD-73C8

Ref #	Part #	Part Name & Description	[#]	⚠
L7N01	409P975010	CHIP BEADS - MPZ2012S221A		
L8001	409P974010	CHIP BEADS - MMZ1608S601A		
L8002	409P974010	CHIP BEADS - MMZ1608S601A		
L8003	325C411030	COIL-CHIP - 10MH-J		
L8004	409P974010	CHIP BEADS - MMZ1608S601A		
L8007	409P975010	CHIP BEADS - MPZ2012S221A		
L8008	409P975010	CHIP BEADS - MPZ2012S221A		
L8009	409P974010	CHIP BEADS - MMZ1608S601A		
L8010	409P974010	CHIP BEADS - MMZ1608S601A		
L8011	409P974010	CHIP BEADS - MMZ1608S601A		
L8012	325C411030	COIL-CHIP - 10MH-J		
L8014	409P974010	CHIP BEADS - MMZ1608S601A		
L8015	409P974010	CHIP BEADS - MMZ1608S601A		
L8016	409P974010	CHIP BEADS - MMZ1608S601A		
L8017	409P974010	CHIP BEADS - MMZ1608S601A		
L8018	409P974010	CHIP BEADS - MMZ1608S601A		
L8019	409P974010	CHIP BEADS - MMZ1608S601A		
L8020	409P974010	CHIP BEADS - MMZ1608S601A		
L8021	409P974010	CHIP BEADS - MMZ1608S601A		
L8022	409P974010	CHIP BEADS - MMZ1608S601A		
L8030	325C501010	COIL-CHIP - ALQM21NNR47K10		
L8202	409P975010	CHIP BEADS - MPZ2012S221A		
L8203	409P975010	CHIP BEADS - MPZ2012S221A		
L8206	351P265010	COIL-CHOKE-CHIP - ACM2012		
L8302	409P974010	CHIP BEADS - MMZ1608S601A		
L8307	409P974010	CHIP BEADS - MMZ1608S601A		
L8313	409P975010	CHIP BEADS - MPZ2012S221A		
L8318	409P974010	CHIP BEADS - MMZ1608S601A		
L8501	409P974010	CHIP BEADS - MMZ1608S601A		
L8504	409P865090	EMI-F-CHIP - BLM11A121S		
L8511	409P865090	EMI-F-CHIP - BLM11A121S		
L9C01	409P974010	CHIP BEADS - MMZ1608S601A		
L9C51	409P975010	CHIP BEADS - MPZ2012S221A		
L9D01	**351P306020**	**LINE-FILTER - TF3020V-A602Y5R0-01**		⚠
L9D02	**351P266020**	**LINE-FILTER - ELF22V025A**		⚠
L9D03	**351P286010**	**LINE-FILTER - HF2836-353Y1R0-T01**		⚠
L9G01	351P316010	COIL-CHOKE-CHIP - PLC-0755-100		
L9G05	351P314010	COIL-CHOKE-CHIP - MPLC1040L2R2		
L9G06	409P975010	CHIP BEADS - MPZ2012S221A		
L9G07	409P975010	CHIP BEADS - MPZ2012S221A		
L9G08	409P975010	CHIP BEADS - MPZ2012S221A		
L9G09	409P975010	CHIP BEADS - MPZ2012S221A		
L9G10	409P975010	CHIP BEADS - MPZ2012S221A		
L9G12	351P315010	COIL-CHOKE-CHIP - PLC-0735-2R0		
L9G20	409P974010	CHIP BEADS - MMZ1608S601A		
L9G21	409P974010	CHIP BEADS - MMZ1608S601A		
L9G22	409P974010	CHIP BEADS - MMZ1608S601A		
L9G23	409P974010	CHIP BEADS - MMZ1608S601A		
L9G24	409P974010	CHIP BEADS - MMZ1608S601A		
L9G80	409P975010	CHIP BEADS - MPZ2012S221A		
L9G81	409P974010	CHIP BEADS - MMZ1608S601A		
T7C49	409P961010	CHIP-FILT - ACM2012D-9002P		
T7C54	409P961010	CHIP-FILT - ACM2012D-9002P		
T7C57	409P961010	CHIP-FILT - ACM2012D-9002P		
T7C60	409P961010	CHIP-FILT - ACM2012D-9002P		

TRANSFORMERS

T9A10	**350P853010**	**TRANS-POWER - SRW2630EG-U01V016**		

Ref #	Part #	Part Name & Description	[#]	⚠

VARIABLE RESISTORS

RV9D00	**265P100040**	**VARISTOR - ERZV10D471CS**
RV9D01	**265P100040**	**VARISTOR - ERZV10D471CS**

CHIP RESISTORS (by value)

CHIP Type Resistors (Listed by Value)

Part No.	Value	Part No.	Value
103P509050	1/16W 0OHM	103P492060	1/16W 1.1K-F
103P408040	1/10W 2.2-J	103P502060	1/16W 1.2K-J
103P400050	1/10W 22-J	103P492080	1/16W 1.3K-F
103P508040	1/16W 2.2-J	103P492090	1/16W 1.5K-F
103P408060	1/10W 3.3-J	103P493020	1/16W 2K-F
103P488080	1/4W 4.7-J	103P493030	1/16W 2.2K-F
103P480010	1/4W 10-J	103P502090	1/16W 2.2K-J
103P500050	1/16W 22-J	103P493040	1/16W 2.4K-F
103P990050	1/16W 22-JX4	103P503000	1/16W 2.7K-J
103P480050	1/4W 22-J	103P493060	1/16W 3K-F
103P500060	1/16W 27-J	103P493070	1/16W 3.3K-F
103P500070	1/16W 33-J	103P503010	1/16W 3.3K-J
103P990070	1/16W 33-JX4	103P494000	1/16W 4.3K-F
103P793080	1/16W 36F	103P494010	1/16W 4.7K-F
103P794010	1/16W 47-F	103P503030	1/16W 4.7K-J
103P500090	1/16W 47-J	103P494030	1/16W 5.6K-F
103P501000	1/16W 56-J	103P503040	1/16W 5.6K-J
103P991010	1/16W 56-JX4	103P494050	1/16W 6.8K-F
103P501010	1/16W 68-J	103P403070	1/8W 10K-J
103P509090	1/16W 75-J	103P494090	1/16W 10K-F
103P401030	1/10W 100-J	103P503070	1/16W 10K-J
103P490010	1/16W 100F	103P495010	1/16W 12K-F
103P501030	1/16W 100-J	103P503080	1/16W 12K-J
103P401050	1/10W 150-J	103P503090	1/16W 15K-J
103P501050	1/16W 150-J	103P495050	1/16W 18K-F
103P501060	1/16W 180-J	103P404000	1/8W 18K-J
103P490080	1/16W 200-F	103P495070	1/16W 22K-F
103P490090	1/16W 220-F	103P504010	1/16W 22K-J
103P501070	1/16W 220-J	103P496010	1/16W 33K-F
103P501080	1/16W 270-J	103P504030	1/16W 33K-J
103P491020	1/16W 300-F	103P504040	1/16W 39K-J
103P401090	1/10W 330-J	103P504050	1/16W 47K-J
103P501090	1/16W 330-J	103P496060	1/16W 51K-F
103P491050	1/16W 390-F	103P496070	1/16W 56K-F
103P502000	1/16W 390-J	103P496090	1/16W 68K-F
103P491070	1/16W 470-F	103P504080	1/16W 82K-J
103P502010	1/16W 470-J	103P504090	1/16W 100K-J
103P502020	1/16W 560-J	103P505000	1/16W 120K-J
103P492010	1/16W 680-F	103P505020	1/16W 180K-J
103P502030	1/16W 680-J	103P505030	1/16W 220K-J
103P492020	1/16W 750-F	103P498030	1/16W 270K-F
103P502040	1/16W 820-J	103P505050	1/16W 330K-J
103P492050	1/16W 1K-F	103P506000	1/16W 820K-J
103P502050	1/16W 1K-J	103P506010	1/16W 1M-J

RESISTORS

Conventional Resistors (By Ref #)

Ref #	Part #	Part Name & Description	[#]	
R9A01	109P179020	R-CEMT-PLT - 1.8 OHM-J		
R9A02	109P179020	R-CEMT-PLT - 1.8 OHM-J		
R9A03	**109C010090**	**R-COMP - 1/2W 4.7M-K**		⚠

MODELS: WD-60735 / WD-60C8 / WD-65735 / WD-65736 / WD-65835 / WD-65C8 / WD-73735 / WD-73736 / WD-73835 / WD-73C8

[#] Model Legend: (a) WD-60735, (b) WD-60C8, (c) WD-65735, (d) WD-65736, (e) WD-65835, (f) WD-65C8, (g), WD-73735, (h) WD-73736, (i) WD-73835, (j) WD-73C8

Ref #	Part #	Part Name & Description	[#]	⚠
Ref #	Part #	Part Name & Description	[#]	
R9A01	109P179020	R-CEMT-PLT - 1.8 OHM-J		
R9A02	109P179020	R-CEMT-PLT - 1.8 OHM-J		
R9A03	**109C010090**	**R-COMP - 1/2W 4.7M-K**		⚠
R9A09	103P145030	R-CARBON - 1/2W 220K-J		
R9A11	103P145030	R-CARBON - 1/2W 220K-J		
R9A19	103P144070	R-CARBON - 1/2W 68K-J		
R9A20	103P144070	R-CARBON - 1/2W 68K-J		
R9A21	103C187050	R-METAL - 2W 0.39-J		
R9A22	103C187050	R-METAL - 2W 0.39-J		
R9A25	103P142060	R-CARBON - 1/2W 1.2K-J		
R9A30	109D151060	R-CARBON - 1/4W 68-J		
R9A42	103P145030	R-CARBON - 1/2W 220K-J		
R9A43	103P145030	R-CARBON - 1/2W 220K-J		
R9A76	103P143010	R-CARBON - 1/2W 3.3K-J		
R9A77	103P143010	R-CARBON - 1/2W 3.3K-J		
R9A78	103P143010	R-CARBON - 1/2W 3.3K-J		
R9A82	103C390050	R-METAL-P - 3W 22-J		
R9A83	103P144070	R-CARBON - 1/2W 68K-J		
R9A09	103P145030	R-CARBON - 1/2W 220K-J		
R9A11	103P145030	R-CARBON - 1/2W 220K-J		
R9A19	103P144070	R-CARBON - 1/2W 68K-J		
R9A20	103P144070	R-CARBON - 1/2W 68K-J		
R9A21	103C187050	R-METAL - 2W 0.39-J		
R9A22	103C187050	R-METAL - 2W 0.39-J		
R9A25	103P142060	R-CARBON - 1/2W 1.2K-J		
R9A30	109D151060	R-CARBON - 1/4W 68-J		
R9A42	103P145030	R-CARBON - 1/2W 220K-J		
R9A43	103P145030	R-CARBON - 1/2W 220K-J		
R9A76	103P143010	R-CARBON - 1/2W 3.3K-J		
R9A77	103P143010	R-CARBON - 1/2W 3.3K-J		
R9A78	103P143010	R-CARBON - 1/2W 3.3K-J		
R9A82	103C390050	R-METAL-P - 3W 22-J		
R9A83	103P144070	R-CARBON - 1/2W 68K-J		

CHIP CAPACITORs (by value)

CHIP Type Capacitors (Listed by Value)

Part No.	Value	Part No.	Value
154P340010	CK50V 1P-C	141P142090	B25V 0.047M-K
154P340060	CK50V 5P-C	141P143020	B16V 0.082M-K
154P341010	CH50V 10P-C	141P143030	B16V 0.1M-K
154P341050	CH50V 15P-J	141P144020	F25V 0.1M-Z
154P341070	CH50V 18P-J	141P134090	F50V 0.1M-Z
154P341090	CH50V 22P-J	141P135080	F50V/25V 0.1M-Z
154P342010	CH50V 27P-J	141P146040	B10V 0.22M-K
154P342070	CH50V 47P-J	141P138080	B25V 0.33M-K
154P353060	SL50V 100P-J	141P146050	B16V 0.33M-K
154P344030	CH50V 220P-J	141P148000	B25V 1M-K
154P354040	SL50V 220P-J	141P134070	B16V 1M-K
154P345010	CH50V 470P-J	141P144060	F25V 1M-Z
154P335010	CH50V 470P-J	141P147020	B10/6.3V 1M-K
141P140050	B50V 470P-K	141P147040	B6.3V 2.2M-K
141P140090	B50V 1000P-K	141P147060	B6.3V 4.7M-K
154P345090	CH25V 1000P-J	181P822030	16V 10M-M 105C
141P141010	B50V 1500P-K	181P826050	50V 10M-M 105C
141P141030	B50V 2200P-K	189P253020	B16V 10M-M
141P141060	B50V 3900P-K	189P253010	B6.3V 10M-M
141P142000	B50V 8200P-K	181P822040	16V 22M-M 105C
141P142010	B50V 0.01M-K	181P825010	35V 22M-M 105C
141P143080	F50V 0.01M-Z	181P820010	6.3V 22M-M 105C
141P132030	B50V 0.015M-K	181P822060	16V 47M-M 105C
141P142050	B25V 0.022M-K	181P820030	6.3V 47M-M 105C
141P142070	B25V 0.033M-K	181P822070	16V 100M-M 105C

CAPACITORS AND TRIMMERS

Conventional Capacitors (By Ref #)

Ref #	Part #	Part Name & Description	[#]	⚠
C3E26	181P354090	C-ELEC - 35V 470M-M		
C3E27	181P354090	C-ELEC - 35V 470M-M		
C3E65	181P735030	C-ELEC - 25V 1000M-M 105C		
C3E69	181P735030	C-ELEC - 25V 1000M-M 105C		
C7AA9	189P252020	C-ELE-DBL-LAYER - EECS0HD224V		
C9A00	189P185090	C-CER - AC250V E2200P-M		
C9A01	189P185090	C-CER - AC250V E2200P-M		
C9A02	185D122040	C-ELEC - H200V 820M-M		
C9A03	185D122040	C-ELEC - H200V 820M-M		
C9A05	189P217090	C-CER-AC - AC250V E2200P-M		
C9A06	189P217090	C-CER-AC - AC250V E2200P-M		
C9A08	189P185090	C-CER - AC250V E2200P-M		
C9A09	189P185090	C-CER - AC250V E2200P-M		
C9A10	**189P185090**	**C-CER - AC250V E2200P-M**		⚠
C9A11	189P185090	C-CER - AC250V E2200P-M		
C9A14	**189P217090**	**C-CER-AC - AC250V E2200P-M**		⚠
C9A19	154P400050	C-CER - B1KV 1000P-K		
C9A21	181P555080	C-ELEC - 50V 10M-M		
C9A27	185D122040	C-ELEC - H200V 820M-M		
C9A30	154P400050	C-CER - B1KV 1000P-K		
C9A34	181P734000	C-ELEC - 16V 2200M-M 105C		
C9A35	181P734000	C-ELEC - 16V 2200M-M 105C		
C9A39	181P555000	C-ELEC - 35V 2200M-M		
C9A46	142P010090	C-CER - B500V 470P-K		
C9A47	181P731090	C-ELEC - 10V 470M-M 105C LOWR		
C9A48	181P555040	C-ELEC - 50V 1M-M		
C9A70	189P258010	C-PLSTIC-PP - 630V-3300P-J		
C9D00	189P153060	C-M-POLY-AC - AC125/250V 0.22M-M		
C9D01	**189P153060**	**C-M-POLY-AC - AC125/250V 0.22M-M**		!
C9D02	189P153060	C-M-POLY-AC - AC125/250V 0.22M-M		
C9G50	189P256060	C-AL-ELEC - 10V 680		
C9G51	189P256060	C-AL-ELEC - 10V 680		
C9G52	189P256060	C-AL-ELEC - 10V 680		

SWITCHES

Ref #	Part #	Part Name & Description	[#]
S7F01	434P004010	LAMP SWITCH	
S7L01	432P109010	SW-KEY BOARD - KSHS611BT	abcdfghj
S7L02	432P109010	SW-KEY BOARD - KSHS611BT	ei
S7L11	432P109010	SW-KEY BOARD - KSHS611BT	abcdfghj
S7L12	432P109010	SW-KEY BOARD - KSHS611BT	abcdfghj
S7L13	432P109010	SW-KEY BOARD - KSHS611BT	abcdfghj
S7L14	432P109010	SW-KEY BOARD - KSHS611BT	abcdfghj
S7L15	432P109010	SW-KEY BOARD - KSHS611BT	abcdfghj
S7L16	432P109010	SW-KEY BOARD - KSHS611BT	abcdfghj
S7L17	432P109010	SW-KEY BOARD - KSHS611BT	abcdfghj
S7L18	432P109010	SW-KEY BOARD - KSHS611BT	abcdfghj
S7L19	432P109010	SW-KEY BOARD - KSHS611BT	abcdfghj
S7L21	432P109010	SW-KEY BOARD - KSHS611BT	ei
S7L22	432P109010	SW-KEY BOARD - KSHS611BT	ei
S7L23	432P109010	SW-KEY BOARD - KSHS611BT	ei

MODELS: WD-60735 / WD-60C8 / WD-65735 / WD-65736 / WD-65835 / WD-65C8 / WD-73735 / WD-73736 / WD-73835 / WD-73C8

[#] Model Legend: (a) WD-60735, (b) WD-60C8, (c) WD-65735, (d) WD-65736, (e) WD-65835, (f) WD-65C8, (g), WD-73735, (h) WD-73736, (i) WD-73835, (j) WD-73C8

Ref #	Part #	Part Name & Description	[#]	⚠
S7L24	432P109010	SW-KEY BOARD - KSHS611BT	ei	
S7L25	432P109010	SW-KEY BOARD - KSHS611BT	ei	
S7L26	432P109010	SW-KEY BOARD - KSHS611BT	ei	
S7L27	432P109010	SW-KEY BOARD - KSHS611BT	ei	
S7L28	432P109010	SW-KEY BOARD - KSHS611BT	ei	
S7L29	432P109010	SW-KEY BOARD - KSHS611BT	ei	

FUSES

Ref #	Part #	Part Name & Description	[#]	⚠
F9A00	**283P144080**	**FUSE - 125V 5A**		⚠
F9A01	**283P144080**	**FUSE - 125V 5A**		⚠
F9A02	**283P144080**	**FUSE - 125V 5A**		⚠
F9D00	**283D161010**	**FUSE - 125V 10A**		⚠
F9G00	**283P170030**	**FUSE-CHIP - F0603FA 2000V032T**		⚠
F9G01	**283P170090**	**FUSE-CHIP - F0603FA 6000V024T**		⚠
F9G02	**283P170030**	**FUSE-CHIP - F0603FA 2000V032T**		⚠
K9A10	**287P111050**	**RELAY-POWER - LKT1AF-12V**		⚠
K9A20	**287P111050**	**RELAY-POWER - LKT1AF-12V**		⚠
K9A21	**287P111050**	**RELAY-POWER - LKT1AF-12V**		⚠

PRINTED CIRCUIT BOARDS

Ref #	Part #	Part Name & Description	[#]	⚠
	934C266002	ASSY-PWB-SBL-R	ei	
	934C269002	ASSY-PWB-SBL-L	ei	
	934C282001	ASSY-PWB-MAIN	abcfgj	
	934C282002	ASSY-PWB-MAIN	dh	
	934C282003	ASSY-PWB-MAIN	ei	
	934C283001	ASSY-PWB-POWER		
	934D012001	ASSY-PWB-LED2	ei	
	935D981001	ASSY-PWB-FRONT1		
	935D982001	ASSY-PWB-CONT1	abcdfghj	
	935D982002	ASSY-PWB-CONT1	ei	
	935D983001	ASSY-PWB-LED	abcdfghj	
	935D984001	ASSY-PWB-PREAMP	abcfgj	
	935D984002	ASSY-PWB-PREAMP	dehi	
	935D985001	ASSY-PWB-SW-LAMP		
	935D998001	ASSY-PWB-HDMI-FRNT	dehi	
	938P127010	ASSY-BALLAST-PWB		

MISCELLANEOUS ELECTRICAL

Cables

Ref #	Part #	Part Name & Description	[#]	⚠
	242D573060	CABLE-USB		
	246C582020	CABLE-3D		
	246C351060	AC POWER CORD		
	246C578010	CABLE-DVI-M-DVI-E		
	242D575010	HDMI CABLE	ehi	

Cores

Ref #	Part #	Part Name & Description	[#]	⚠
	411D044020	CORE-FERRITE - ZCAT2032-0930		
	411D062010	CORE-FERRITE - ZCAT1518-0730		
	411P029010	CORE-FERRITE - ZCAT3513S		

Fans

Ref #	Part #	Part Name & Description	[#]	⚠
	299P335010	COOLING-FAN - D34902-57MDEA1		
	299P321010	FAN-SCIROCCO - BG0703-B042-00L-T3		
	299P339010	FAN-DMD		

Optical Engines

Ref #	Part #	Part Name & Description	[#]	⚠
	938P126040	OPTICAL-ENGINE - 60"	ab	
	938P126050	OPTICAL-ENGINE - 65"	cdf	
	938P126060	OPTICAL-ENGINE - 73"	ghj	
	955B378001	OPTICAL ENGINE - 65"	e	
	955B378002	OPTICAL ENGINE - 73"	i	

Photo Couplers

Ref #	Part #	Part Name & Description	[#]	⚠
PC9A10	**268P125010**	**PHOTO-COUPLER - FOD617C**		⚠
PC9A20	**268P125010**	**PHOTO-COUPLER - FOD617C**		⚠

Quartz Crystals

Ref #	Part #	Part Name & Description	[#]	⚠
X2001	285P481030	QTZ-CRYST - 28.322MHZ		
X3P01	285P481020	QTZ-CRYST - 12.288MHZ		
X7A01	285P403020	QTZ-CRYST - 32.768MHZ		
X7A02	285P481080	QTZ-CRYST - 20.000MHZ		
X7G00	285P391040	QTZ-CRYST - 74.25MHZ		
X8001	285P479030	QTZ-CRYST - 55.474MHZ		
X80T0	285P481050	QTZ-CRYST - 25.14MHZ		
X8301	285P481070	QTZ-CRYST - 7.3728MHZ		
X8501	285P464040	QTZ-CRYST - 24.576MHz		

Relays

Ref #	Part #	Part Name & Description	[#]	⚠
K9A10	**287P111050**	**RELAY-POWER - LKT1AF-12V**		⚠
K9A20	**287P111050**	**RELAY-POWER - LKT1AF-12V**		⚠
K9A21	**287P111050**	**RELAY-POWER - LKT1AF-12V**		⚠

Tuner

Ref #	Part #	Part Name & Description	[#]	⚠
TU101	**295P544030**	**NTSC/ATSC/QAM TUNER**		⚠

Other

Ref #	Part #	Part Name & Description	[#]	⚠
	915B403001	**LAMP-CARTRIDGE (V39)**		⚠
	938P137010	MODULE-COLOR-WHEEL		
	480P084010	SPEAKER - 4 OHM 10W		
	761D999010	LED-CHIP	abcdfghj	
AG9D00	299P340010	SURGE-SUPPRESSOR - DE37-452M-A21F		
Z7N01	938P078010	UNIT-PREAMP		

MISCELLANEOUS Cabinet/Mechanical

Ref #	Part #	Part Name & Description	[#]	⚠
	096Z465030	TAPE-LENS	cdefghij	
	096Z465080	TAPE-LENS	abcdefghj	
	299P337010	SENSOR-LAMP-TEMP	aefghi	
	572C013010	SPRING-DOOR	abcdfghj	
	572C015010	SPRING-DOOR	i	
	593B259020	HOLDER-MIRROR-T	e	
	593B269010	BRACKET-MIRROR-BTM	ghij	
	593B279010	HOLDER-MIRROR-BTM	ghij	
	593B333010	BRACKET-MIRROR-LEFT	cdef	
	593B333020	BRACKET-MIRROR-RIGHT	cdef	
	593B370010	HOLDER-MIRROR-T	ghij	
	601D001030	STIFFENER, 703mm	cdef	
	601D001040	STIFFENER, 1100mm	eghij	
	601D001050	STIFFENER, 850mm	ghij	
	621B182030	HOLDER-MIRROR-SIDE-R	cdefghij	
	621B182040	HOLDER-MIRROR-SIDE-L	cdefghij	
	621B186010	HOLDER-SBL-R	e	
	621B186020	HOLDER-SBL-L	e	
	621B189020	COVER-HOLDER-MIRROR	e	
	621B192010	HOLDER-SBL-R	i	
	621B192020	HOLDER-SBL-L	i	
	622C489070	SPACER-SPEAKER	abcdfghj	
	622C544010	HOLDER-BUTTON-POWER	e	

MODELS: WD-60735 / WD-60C8 / WD-65735 / WD-65736 / WD-65835 / WD-65C8 / WD-73735 / WD-73736 / WD-73835 / WD-73C8

[#] Model Legend: (a) WD-60735, (b) WD-60C8, (c) WD-65735, (d) WD-65736, (e) WD-65835, (f) WD-65C8, (g), WD-73735, (h) WD-73736, (i) WD-73835, (j) WD-73C8

Ref #	Part #	Part Name & Description	[#]	⚠
	622D484010	HOLDER-LED		
	623D418010	HOLDER-FAN		
	623D439020	HOLDER-MIRROR-EDGE	cdef	
	623D439030	HOLDER-MIRROR-EDGE-T	ghij	
	623D439040	HOLDER-MIRROR-EDGE	ghij	
	623D439050	HOLDER-MIRROR-EDGE	ab	
	642B177010	SUPPORT BALLAST		
	642C438010	DAMPER-SPEAKER		
	704B229010	BUTTONS-CONTROL	i	
	740B239010	BUTTON POWER	abcfgj	
	740B239020	BUTTON POWER	dh	
	750A611010	BOX-MIRROR	e	
	750A611020	BOX-MIRROR	cdf	
	750A638010	BOX-MIRROR	ghij	
	750A658010	BOX-MIRROR	ab	
	761A354020	BASE-COMMON	abcdf	
	761A355030	COVER BACK	abcdef	
	761A359030	COVER-BACK	ghij	
	761B468010	PANEL-CONTROL	e	
	761B471010	COVER-PORTHOLE		
	761B480010	DOOR FRONT	e	
	761B483010	SPEAKER-COVER	ei	
	761B505010	DOOR-FRONT	ac	
	761B505020	DOOR-FRONT	d	
	761B506010	DOOR-FRONT	g	
	761B506020	DOOR-FRONT	h	
	761B511010	DOME-SPEAKER-R		
	761B511020	DOME-SPEAKER-L		
	761B514010	COVER-SERVICE PORT		
	761C788010	LED-SBL LENS-R		
	761C788020	LED-SBL LENS-L		
	761D999010	LED-CHIP		
	762D075010	COVER BLASTER (PIN)		
	KIT-MIR WD65835		MIRROR 65"	
	KIT-MIR WD73735		MIRROR 73"	
	KIT-MIR 767D086010		MIRROR 60"	
	KIT-MIR 767D086020		MIRROR 65"	
	771D127030	PAD-BOTTOM FEET		
	771D139010	PAD-BOTTOM FEET		
	771D139020	PAD-MIRROR-HOLDER		

COSMETIC PARTS

Ref #	Part #	Part Name & Description	[#]	⚠
	716C044010	BADGE-BRAND	abcdfghj	
	716C047010	BADGE-DIAMOND	ei	
	716C053010	BADGE-BRAND	ei	

Ref #	Part #	Part Name & Description	[#]	⚠
	760C798010	INLAY-FRONT-CONTROL	e	
	760C799040	INLAY-FRONT-INPUT	e	
	760C803010	INLAY-FRONT-CONTROL	i	
	760C804030	INLAY-FRONT-INPUT	i	
	760C806010	INLAY-LED-RIGHT	i	
	760C806020	INLAY-LED-LEFT	i	
	760C810010	INLAY FRONT	abcf	
	760C810020	INLAY FRONT	d	
	760C811010	INLAY CONTROL	abcdf	
	760C818010	INLAY-CONTROL	ghj	
	760C819010	INLAY-INPUT	gj	
	760C819020	INLAY-INPUT	h	
	760D667010	INLAY-LED-RIGHT	e	
	760D667020	INLAY-LED-LEFT	e	
	761B476010	DOOR-FRONT	i	
	761B478020	COVER-LAMP		
	761B505030	DOOR-FRONT	bf	
	761B506030	DOOR-FRONT	j	
	761B507050	ORNAMENT L/R	f	
	761B507060	ORNAMENT L/R	f	
	761B508030	ORNAMENT L/R	b	
	761B508040	ORNAMENT L/R	b	
	761B509050	ORNAMENT-L	j	
	761B509060	ORNAMENT-R	j	
	761B507010	FRONT-ORNAMENT L	c	
	761B507020	FRONT-ORNAMENT R	c	
	761B507030	FRONT-ORNAMENT L	d	
	761B507040	FRONT-ORNAMENT R	d	
	761B508010	FRONT-ORNAMENT L	a	
	761B508020	FRONT-ORNAMENT R	a	
	761B509010	FRONT-ORNAMENT L	g	
	761B509020	FRONT-ORNAMENT R	g	
	761B509030	FRONT-ORNAMENT L	h	
	761B509040	FRONT-ORNAMENT R	h	

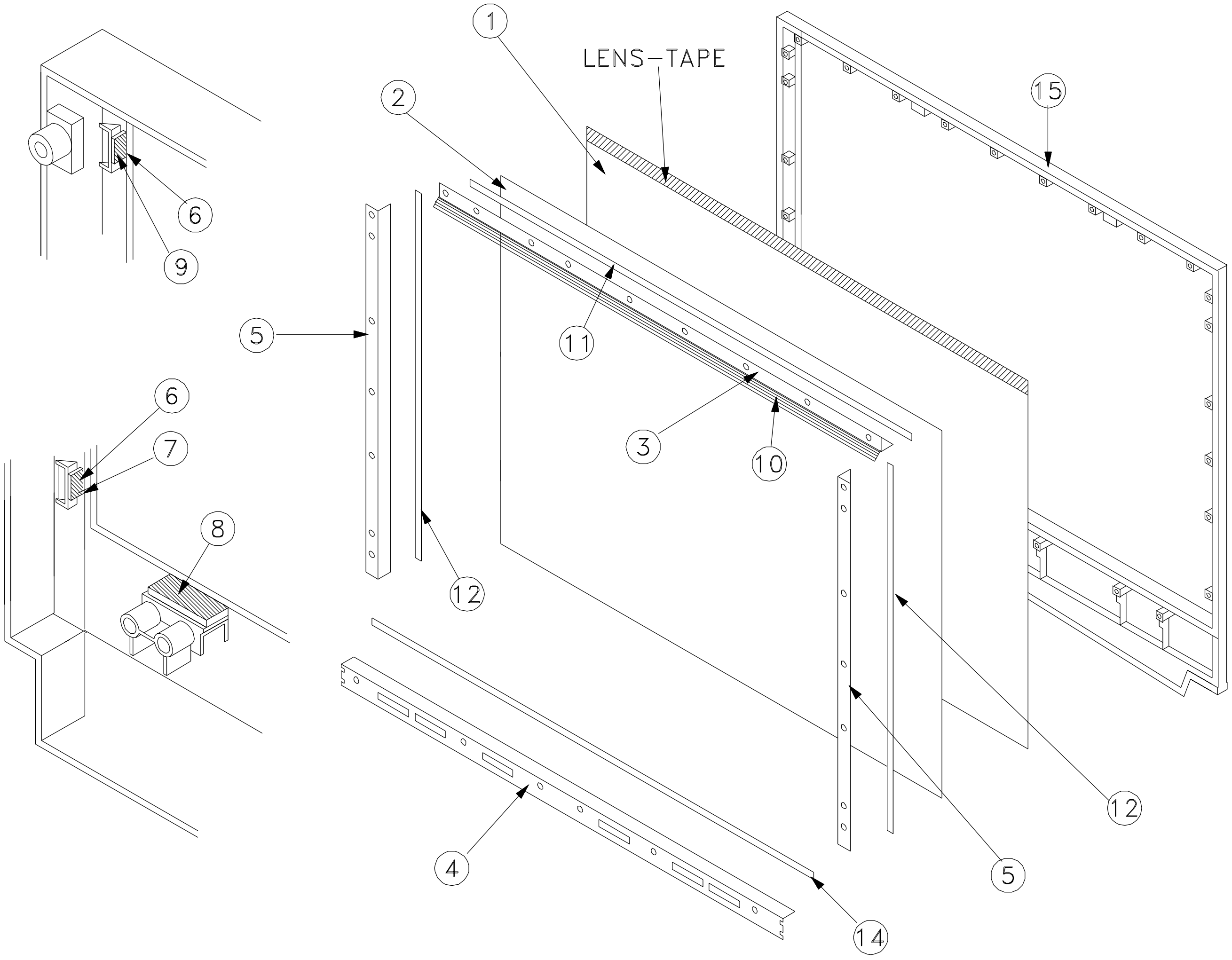
ACCESSORIES

Ref #	Part #	Part Name & Description	[#]	⚠
	242D483020	CABLE-IR-EMITTER - 1-HEAD	dehi	
	290P137010	REMOTE-CONTROL - V33-V39	abcdfghj	
	290P137020	REMOTE-CONTROL - V39++	ei	
	774P001010	CLOTH-SOFT	ei	
	I/B WD60735	IB PCTV		
	I/QR WD60735	QR GUIDE		
	I/Q WD60735	QUICK CONNECT GUIDE		

SCREEN PARTS

Ref#	Part#	Description	Model
(0)	LENS-TAPE	TAPE-LENS	
(1)	491P217010	SCREEN-LENTICULAR	ab
(1)	491P217020	SCREEN-LENTICULAR	cdef
(1)	491P217030	SCREEN-LENTICULAR	ghij
(2)	491P218010	LENS-FRESNEL	ab
(2)	491P218020	LENS-FRESNEL	cdef
(2)	491P218030	LENS-FRESNEL	ghij
(3)	593B261020	HOLDER-SCREEN-T	e
(3)	593B322010	HOLDER-SCREEN-T	i
(3)	593B341010	HOLDER-SCREEN T	cdf
(3)	593B350010	HOLDER-SCREEN-T	ab
(3)	593B371010	HOLDER-SCREEN-T	ghj
(4)	593B263020	HOLDER-SCREEN-B	e
(4)	593B267020	HOLDER-SCREEN-B	i
(4)	593B342010	HOLDER-SCREEN B	cdf
(4)	593B359010	HOLDER-SCREEN-B	ab
(4)	593B372010	HOLDER-SCREEN-B	ghj
(5)	621B184020	HOLDER-SCREEN-S	e
(5)	621B196010	HOLDER-SCREEN S	ab
(5)	621B196020	HOLDER-SCREEN S	cdf
(5)	621B207010	HOLDER-SCREEN-S	ghj

Ref#	Part#	Description	Model
(6)	622C487080	SPACER	abcdfghj
(7)	622C487030	SPACER-BEZEL-CUSHION3	ei
(8)	622C487050	SPACER-BEZEL-CUSHION2	e
(9)	622C487060	SPACER-BEZEL-CUSHION1	ei
(10)	621B208020	COVER-HOLDER-T	ghj
(11)	622C536070	SPACER-SCREEN-T	e
(11)	622C536080	SPACER-SCREEN-T	i
(11)	622C609010	SPACER-SCREEN-T	ghj
(12)	622C537080	SPACER-SCREEN-S	e
(12)	622C537090	SPACER-SCREEN-S	i
(12)	622C608010	SPACER-SCREEN-S	ghj
(14)	622C538070	SPACER-SCREEN-B	i
(14)	622C550080	SPACER-SCREEN-B	cdf
(14)	622C550090	SPACER-SCREEN-B	ab
(14)	622C601010	SPACER-SCREEN-B	e
(14)	622C601030	SPACER-SCREEN-B	ghj
(15)	761A357010	BEZEL-FRONT	i
(15)	761A361010	BEZEL-FRONT	e
(15)	761A382010	BEZEL-FRONT	cdf
(15)	761A383010	BEZEL-FRONT	ab
(15)	761A384010	BEZEL-FRONT	ghj



MIRROR PARTS LIST

Model	KIT	Description	Part #
WD-60C8 WD-60735	KIT-MIR 767D086010	MIRROR	767D086010
		HOLDER-MIRROR-EDGE (BTM)	623D439050
		HOLDER-MIRROR-EDGE (SIDE)	623D439020
WD-65735 WD-65736 WD-65C8	KIT-MIR 767D086020	MIRROR	767D086020
		STIFFENER, 22-11/16 in. (SIDE)	601D001030
		HOLDER-MIRROR-EDGE	623D439020
WD-65835	KIT-MIR WD65835	MIRROR	767D084020
		STIFFENER, 22-11/16 in. (SIDE)	601D001030
		STIFFENER, 43-5/16 in. (TOP)	601D001040
		HOLDER-MIRROR-EDGE	623D439020
WD-73C8 WD-73735 WD-73736 WD-73835	KIT-MIR WD73735	MIRROR	767D084030
		STIFFENER, 43-5/16 in. (TOP)	601D001040
		STIFFENER, 33-1/2 in. (SIDE)	601D001050
		COVER-HOLDER-MIRROR	623D439030
		HOLDER-MIRROR-EDGE (SIDE/BTM)	623D439040

MIRROR MOUNTING HARDWARE

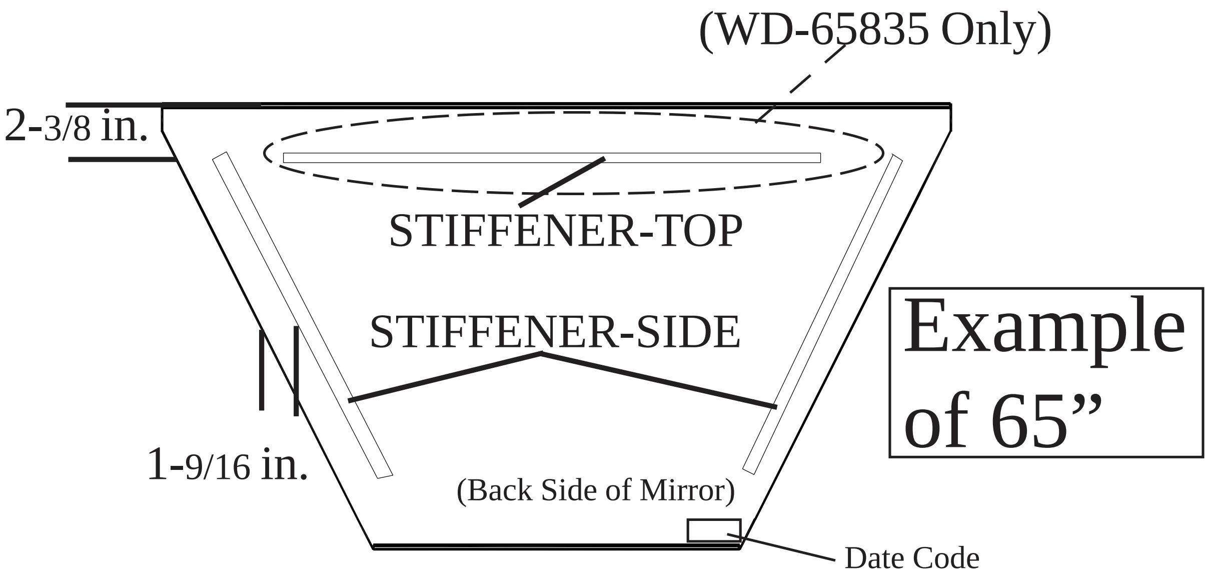
Screen Size	Part #	Description	Detail
65" / 73"	621B182030	HOLDER-MIRROR-SIDE	LEFT
	621B182040	HOLDER-MIRROR-SIDE	RIGHT
65"	593B333010	BRACKET-MIRROR (BTM)	LEFT
	593B333020	BRACKET-MIRROR (BTM)	RIGHT
WD-65835	593B259020	HOLDER-MIRROR-TOP	
WD-73735 WD-73736 WD-73835	593B370010	HOLDER MIRROR-TOP	

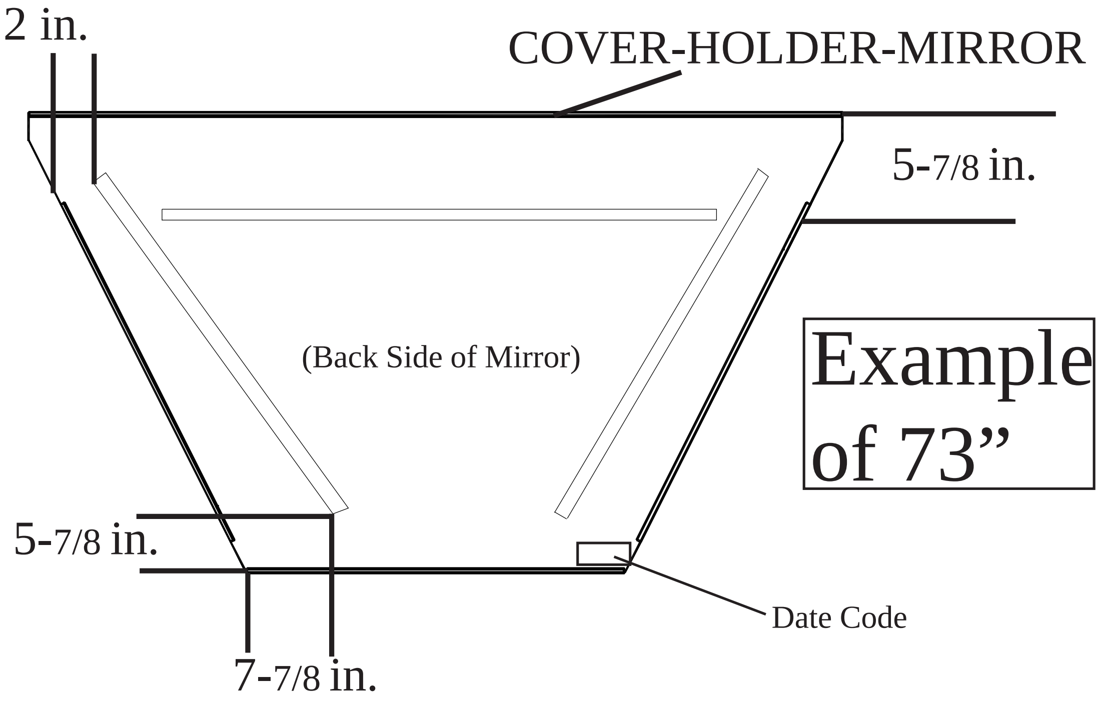
Mirror Installation

Mirror-1: Prepare mirror for installation by adding STIFFENERs to the back of mirror. Back of mirror is identified by the label in the lower right corner.
NOTE: No stiffeners are used in the 60 inch models.

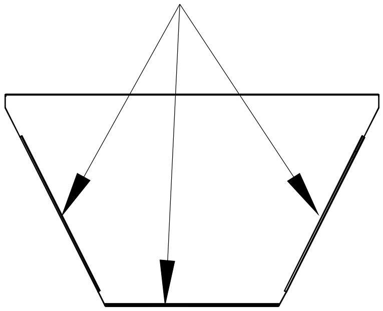
STIFFENER INSTALLATION

	Side Stiffener	Top Stiffener
65" Models	1.6 in. (40mm) SIDE Edge	N/A
WD-65835	1.6 in. (40mm) SIDE Edge	2.4 in, (60mm) from TOP Edge
73"Models	5.9 in. (150mm) from BOTTOM edge, 7.9 in. (200mm) from SIDE-BOTTOM and taper to 2 in. (50mm)from side near TOP	5.9 in. (150mm) from TOP Edge


(WD-65835 Only)
2-3/8 in.
STIFFENER-TOP
STIFFENER-SIDE
Example of 65”
1-9/16 in.
(Back Side of Mirror)
Date Code

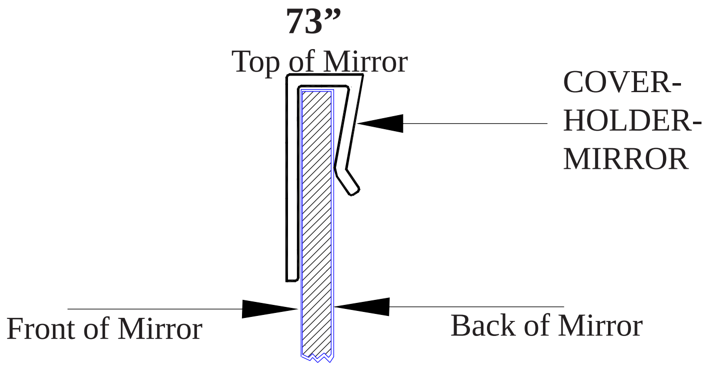

2 in.
COVER-HOLDER-MIRROR
5-7/8 in.
Example of 73”
(Back Side of Mirror)
5-7/8 in.
Date Code
7-7/8 in.

Mirror-2: Install HOLDER-MIRROR-EDGE to both side edges and the bottom of the mirror

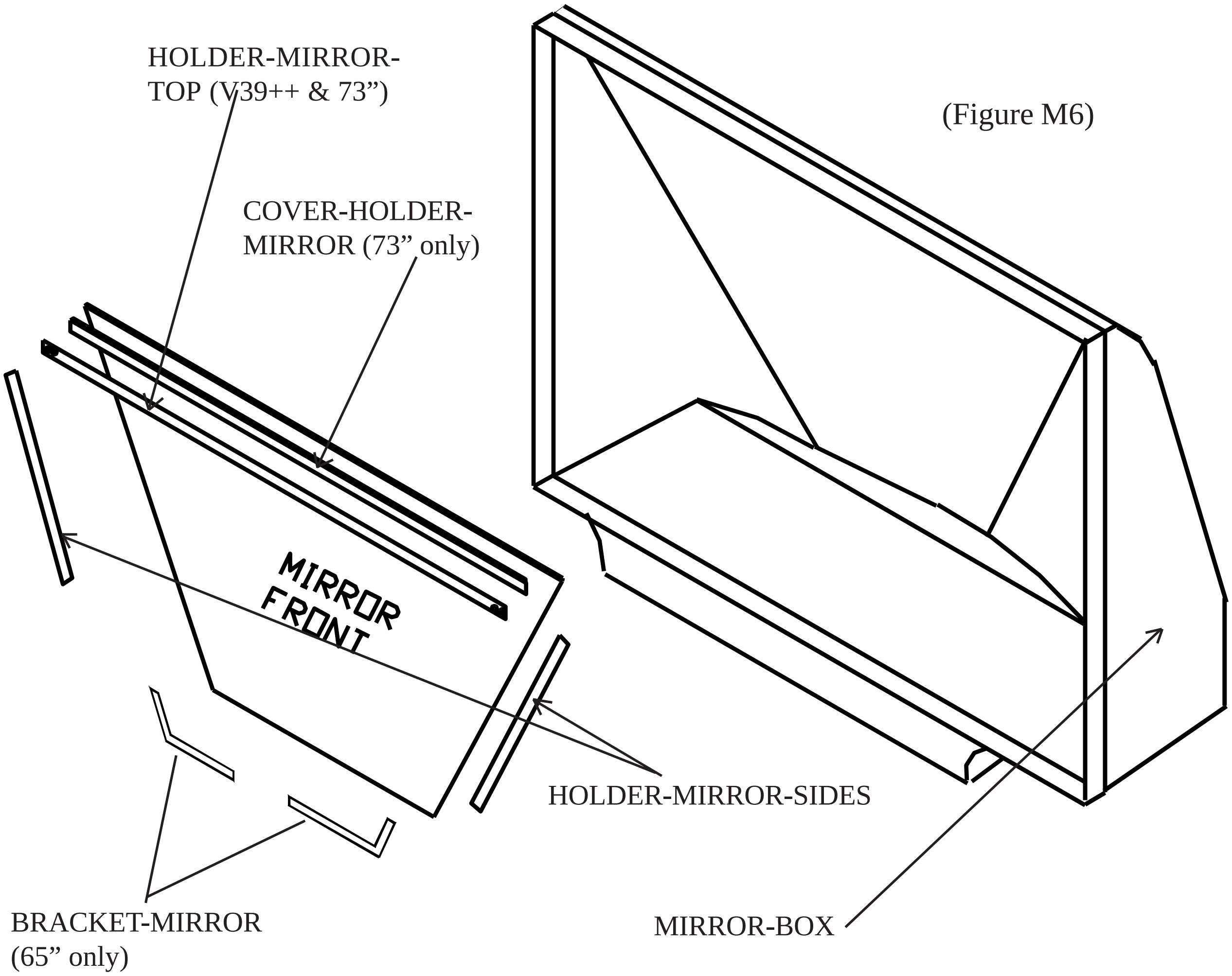


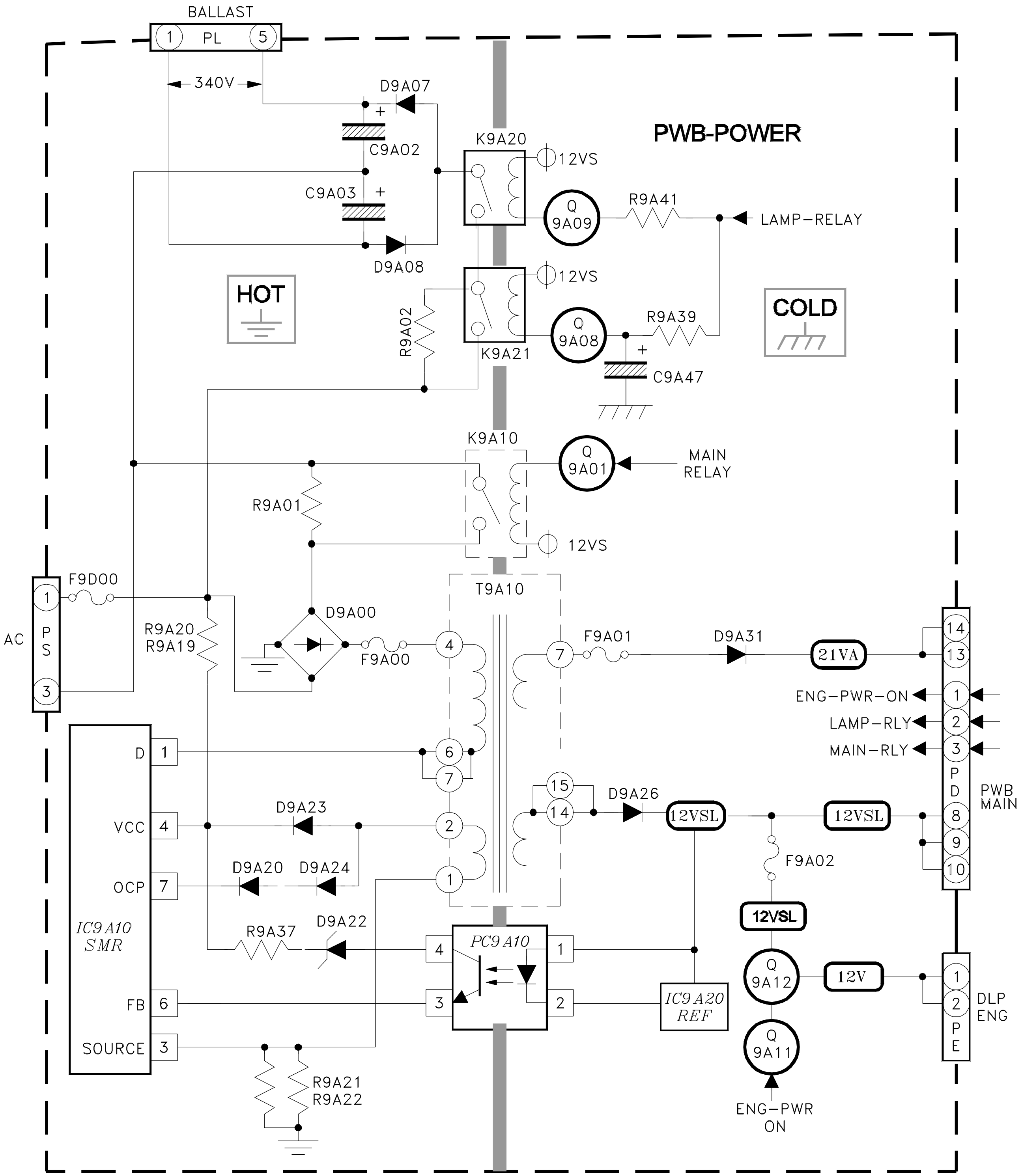
Mirror-3: Install mirror into MIRROR-BOX and secure with HOLDER-MIRROR-SIDE (60" models do not have HOLDER-MIRROR-SIDE)

Mirror-4: Install COVER-HOLDER-MIRROR to top of mirror (73" models only)

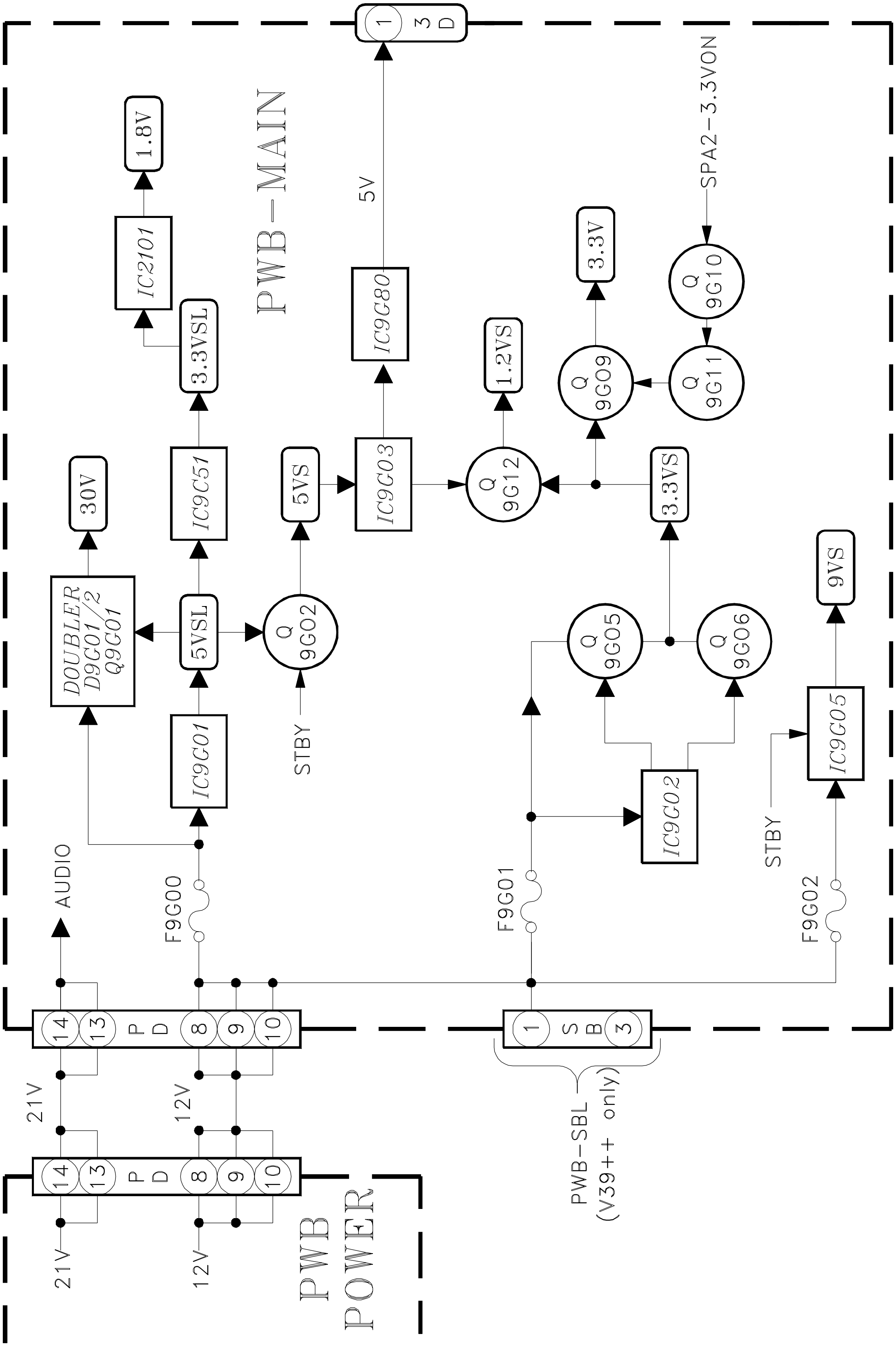

73"
Top of Mirror
COVER-
HOLDER-
MIRROR
Front of Mirror
Back of Mirror

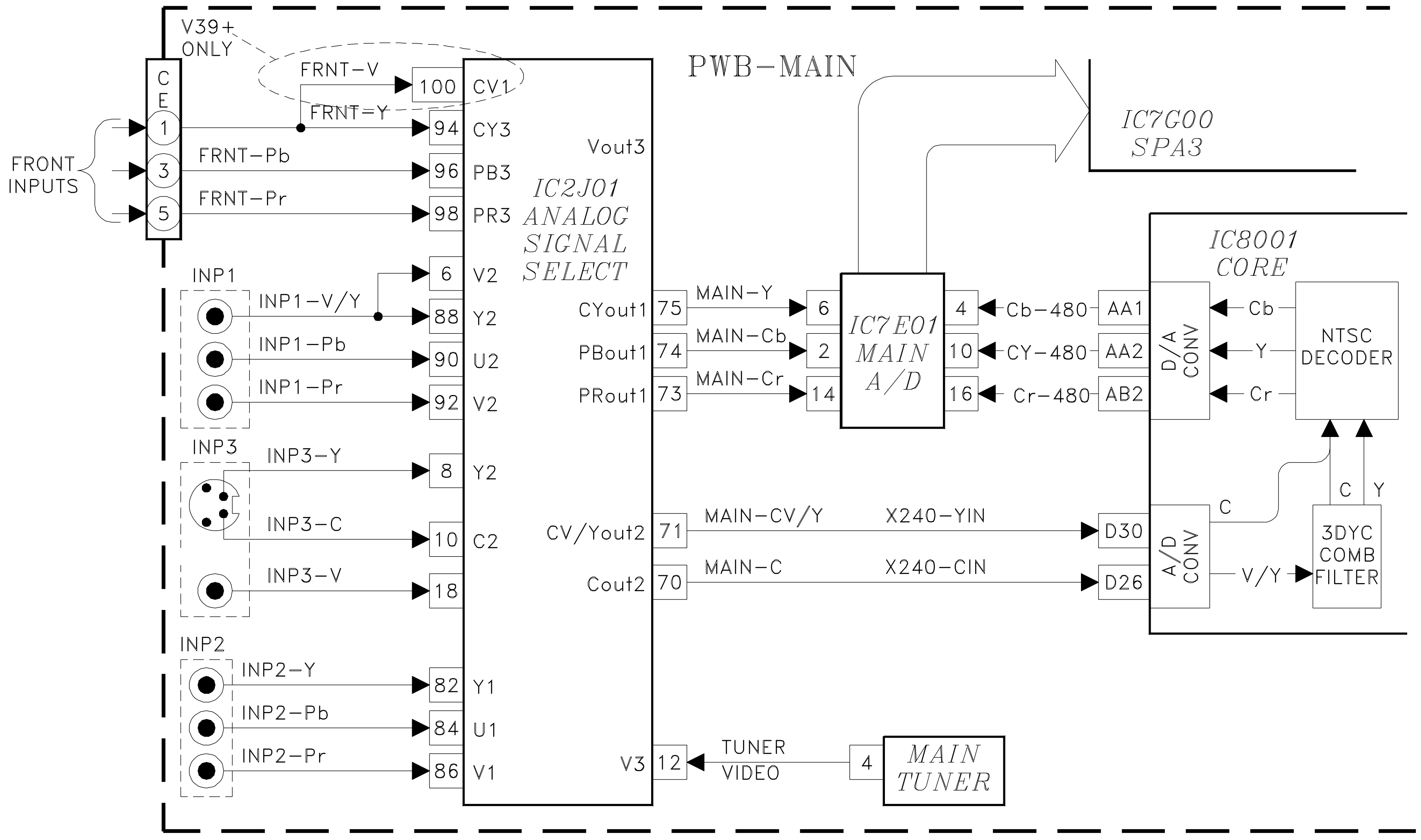
Mirror-5: 73" & V39++ Models: Install HOLDER-MIRROR-TOP. (HOLDER-MIRROR-TOP will fit into the groove of the COVER-HOLDER-MIRROR)
65" Models: Install BRACKET-MIRROR to bottom left and right corners.


HOLDER-MIRROR-
TOP (V39++ & 73")
COVER-HOLDER-
MIRROR (73" only)
(Figure M6)
MIRROR
FRONT
HOLDER-MIRROR-SIDES
BRACKET-MIRROR
(65" only)
MIRROR-BOX

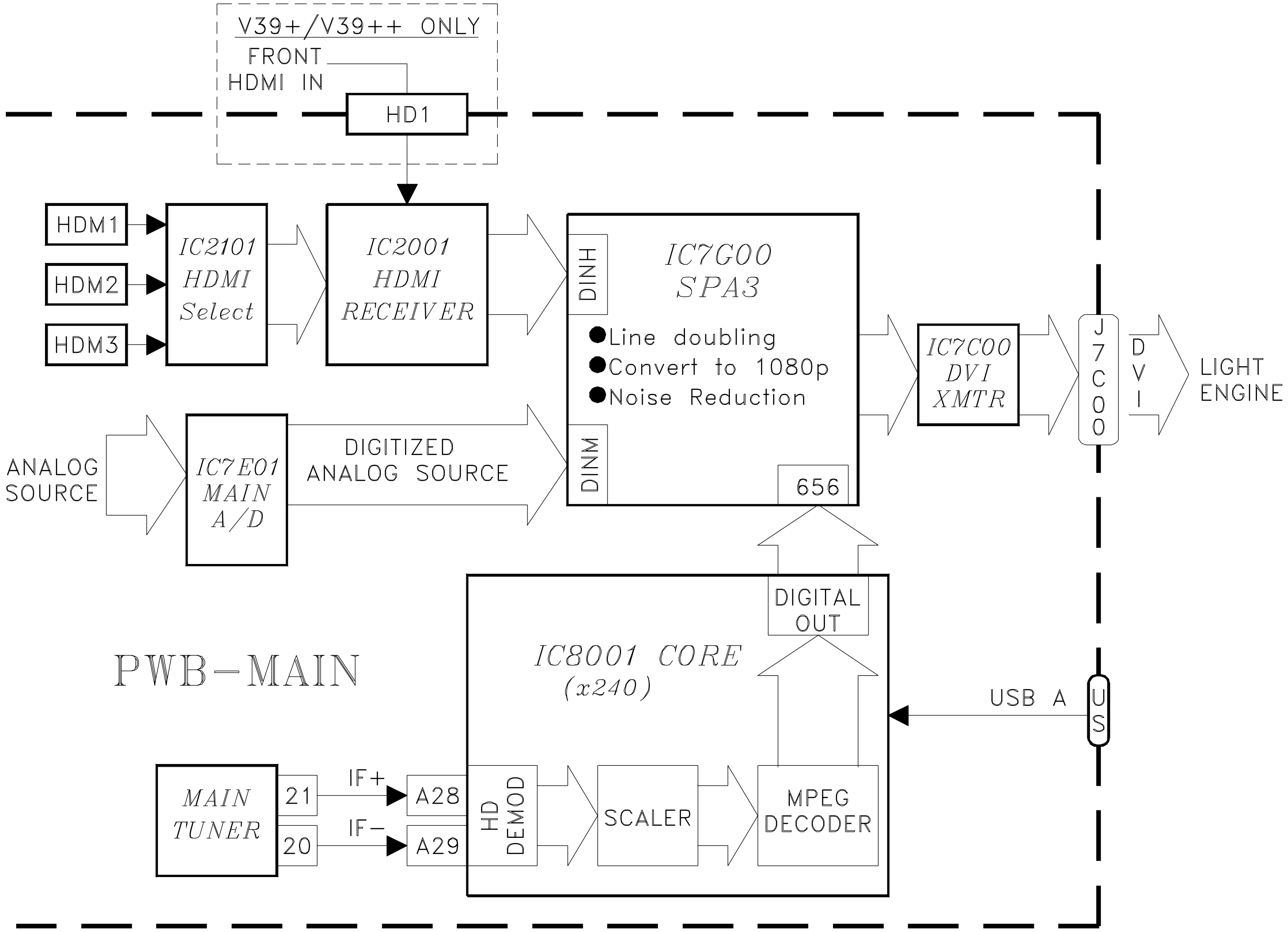

BALLAST
1
PL
5
340V
D9A07
C9A02
C9A03
D9A08
K9A20
12VS
Q 9A09
R9A41
LAMP−RELAY
PWB-POWER
HOT
12VS
R9A02
K9A21
Q 9A08
R9A39
C9A47
COLD
K9A10
Q 9A01
MAIN RELAY
R9A01
12VS
AC
P S
1
3
F9D00
R9A20
R9A19
D9A00
F9A00
T9A10
4
7
F9A01
D9A31
21VA
14
13
ENG−PWR−ON
LAMP−RLY
MAIN−RLY
1
2
3
P D
PWB MAIN
D
1
6
7
VCC
4
D9A23
2
15
14
D9A26
12VSL
12VSL
8
9
10
F9A02
OCP
7
D9A20
D9A24
1
12VSL
IC9A10 SMR
R9A37
D9A22
4
PC9A10
1
Q 9A12
12V
1
2
DLP ENG
P E
FB
6
3
2
IC9A20 REF
Q 9A11
SOURCE
3
R9A21
R9A22
ENG−PWR ON

MAIN POWER SUPPLY

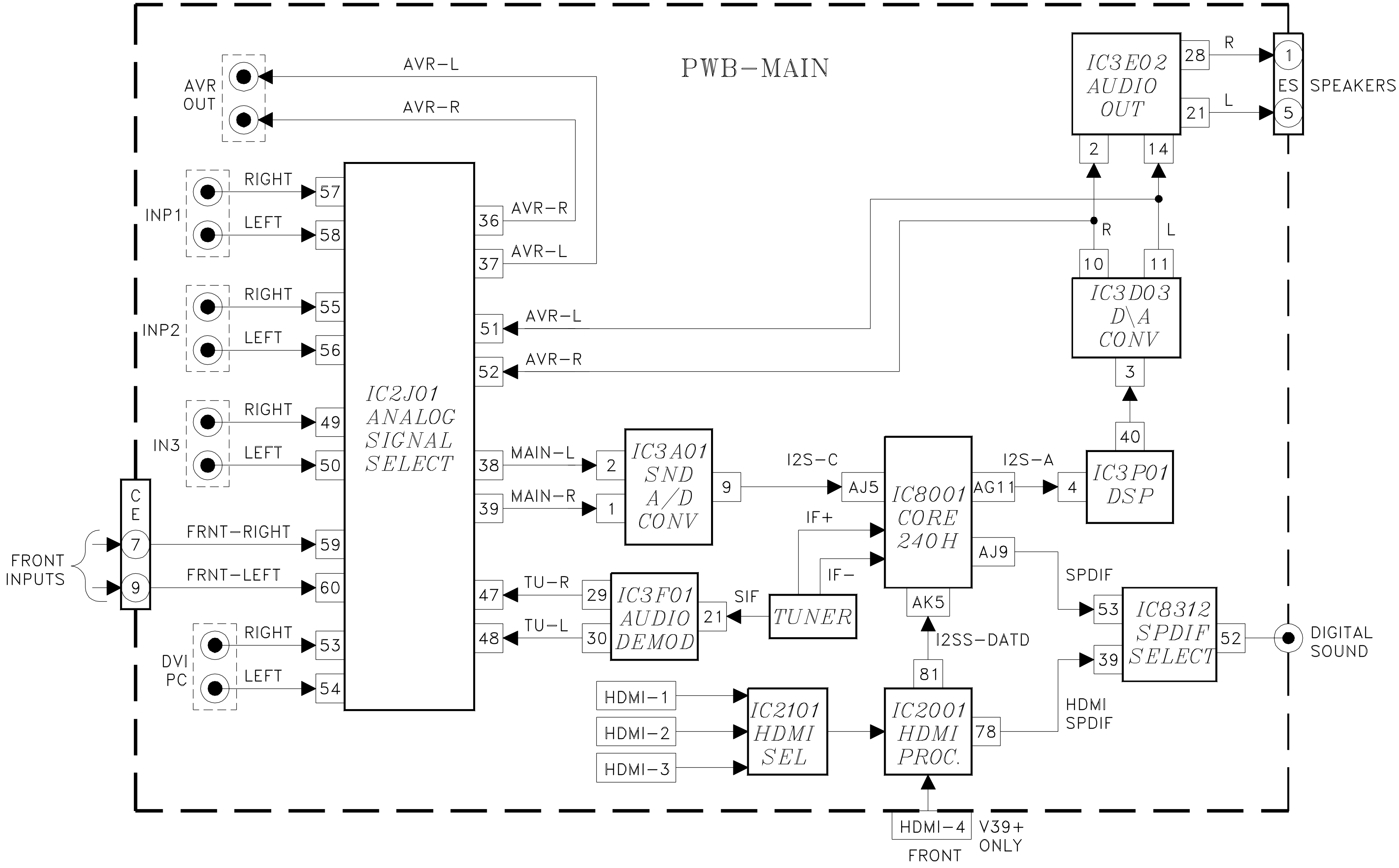

PWB-MAIN
PWB POWER
PWB-SBL
(V39++ only)
21V
12V
PD
14
13
8
9
10
SB
1
3
3D
1
AUDIO
F9G00
F9G01
F9G02
IC9G01
5VSL
DOUBLER
D9G01/2
Q9G01
30V
IC9C51
3.3VSL
IC2101
1.8V
Q
9G02
STBY
5VS
IC9G03
IC9G80
5V
Q
9G12
1.2VS
Q
9G09
3.3V
Q
9G11
Q
9G10
SPA2-3.3VON
3.3VS
Q
9G05
Q
9G06
IC9G02
STBY
IC9G05
9VS


PWB−MAIN
V39+ ONLY
FRONT INPUTS
C E
1
3
5
FRNT−V
FRNT−Y
FRNT−Pb
FRNT−Pr
INP1
INP1−V/Y
INP1−Pb
INP1−Pr
INP3
INP3−Y
INP3−C
INP3−V
INP2
INP2−Y
INP2−Pb
INP2−Pr
100 CV1
94 CY3
96 PB3
98 PR3
6 V2
88 Y2
90 U2
92 V2
8 Y2
10 C2
18
82 Y1
84 U1
86 V1
IC2J01 ANALOG SIGNAL SELECT
Vout3
CYout1 75
PBout1 74
PRout1 73
CV/Yout2 71
Cout2 70
V3 12
MAIN−Y
MAIN−Cb
MAIN−Cr
6
2
14
IC7E01 MAIN A/D
4
10
16
Cb−480
CY−480
Cr−480
IC7G00 SPA3
AA1
AA2
AB2
IC8001 CORE
D/A CONV
Cb
Y
Cr
NTSC DECODER
MAIN−CV/Y
X240−YIN
MAIN−C
X240−CIN
D30
D26
A/D CONV
C
V/Y
C
Y
3DYC COMB FILTER
TUNER VIDEO
4
MAIN TUNER

ANALOG VIDEO SIGNAL PATH

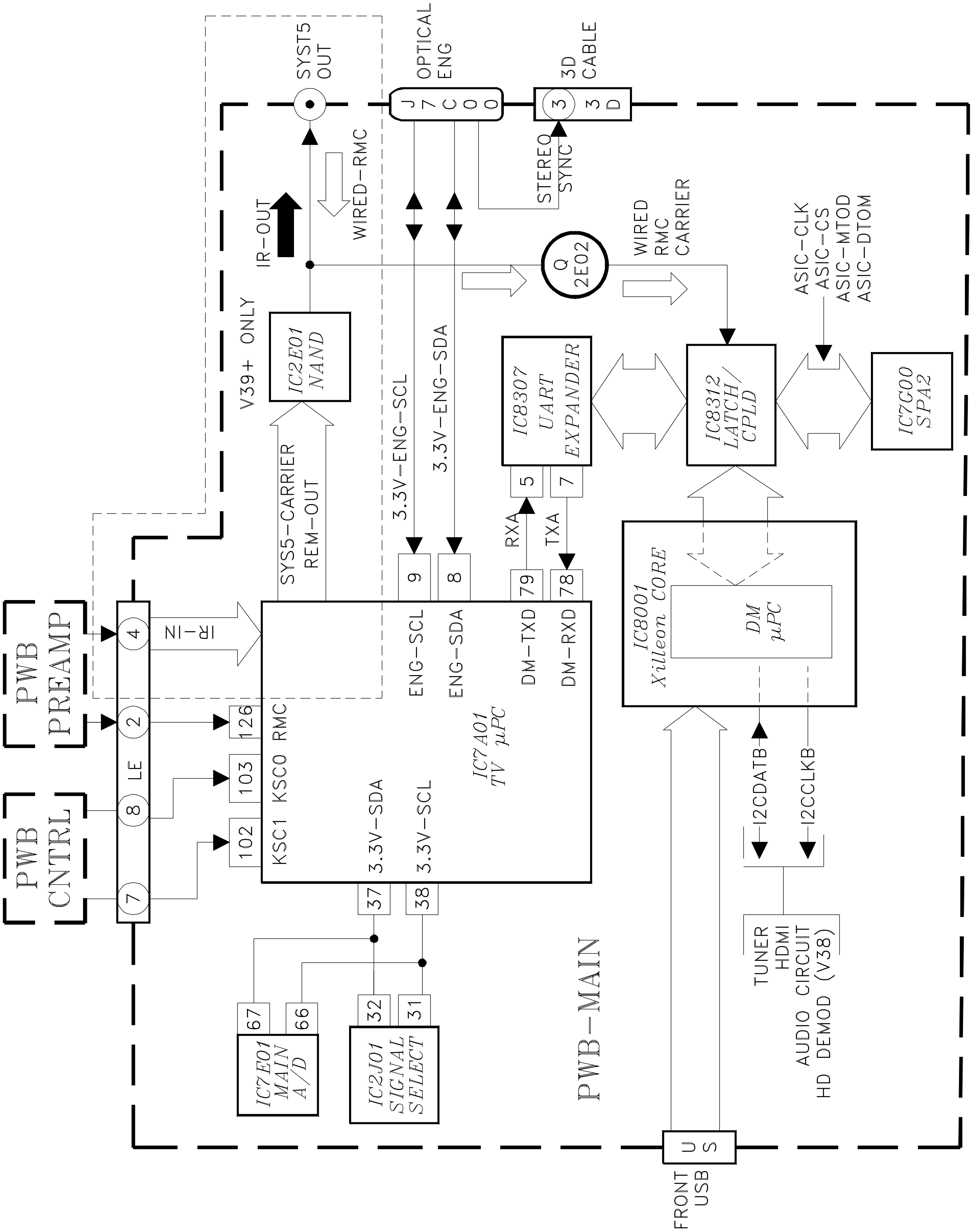

V39+/V39++ ONLY
FRONT
HDMI IN
HD1
HDM1
HDM2
HDM3
IC2101
HDMI
Select
IC2001
HDMI
RECEIVER
IC7G00
SPA3
DINH
●Line doubling
●Convert to 1080p
●Noise Reduction
DINM
656
IC7C00
DVI
XMTR
J7C00
DVI
LIGHT
ENGINE
ANALOG
SOURCE
IC7E01
MAIN
A/D
DIGITIZED
ANALOG SOURCE
PWB−MAIN
IC8001 CORE
(x240)
DIGITAL
OUT
USB A
US
MAIN
TUNER
21
20
IF+
IF−
A28
A29
HD
DEMOD
SCALER
MPEG
DECODER

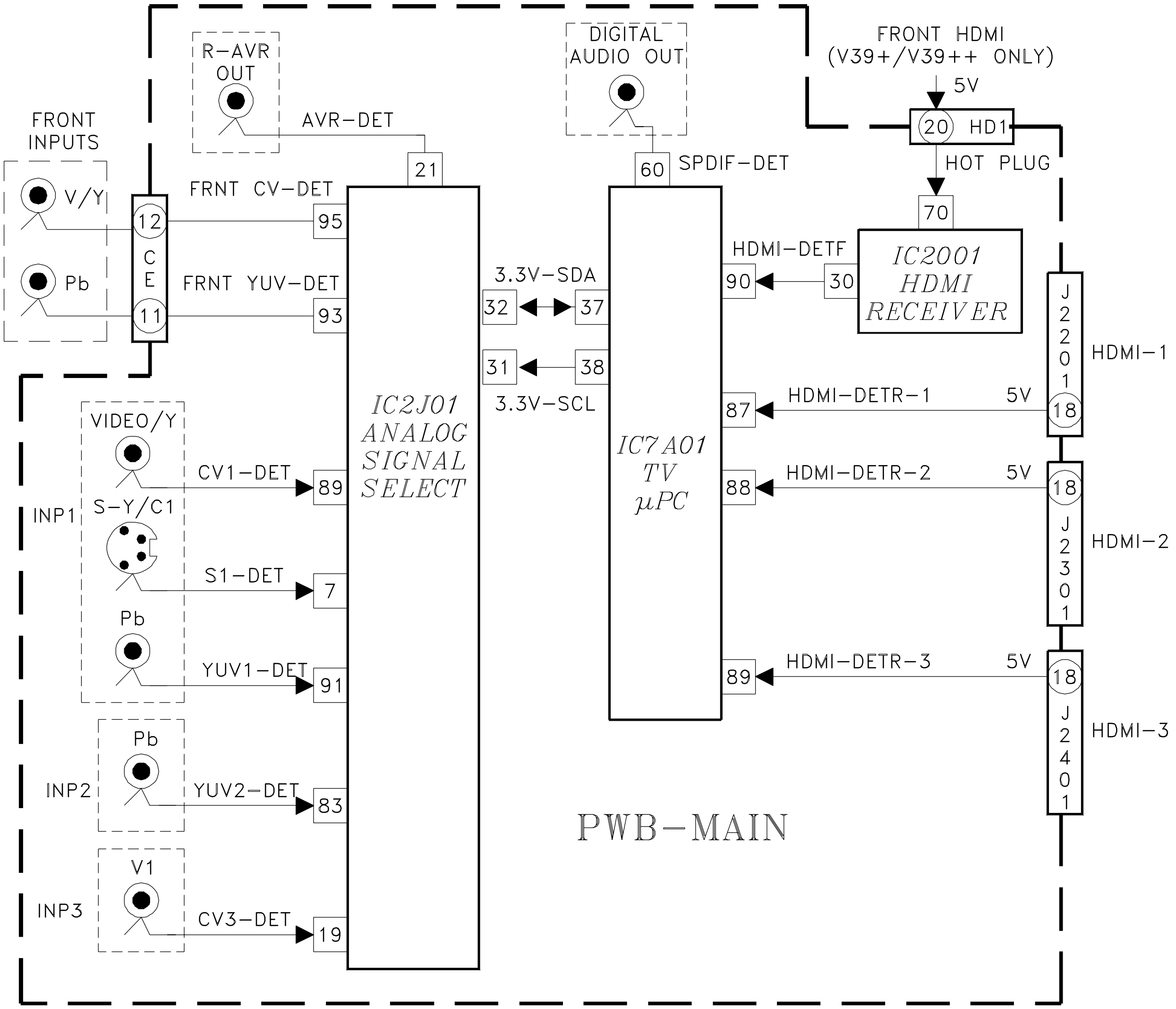
DIGITAL VIDEO SIGNAL PATH


PWB−MAIN
AVR OUT
AVR−L
AVR−R
INP1
INP2
IN3
DVI PC
RIGHT
LEFT
57
58
55
56
49
50
59
60
53
54
FRONT INPUTS
C E
7
9
FRNT−RIGHT
FRNT−LEFT
IC2J01 ANALOG SIGNAL SELECT
36
37
51
52
38
39
47
48
MAIN−L
MAIN−R
TU−R
TU−L
IC3A01 SND A/D CONV
2
1
9
IC3F01 AUDIO DEMOD
29
30
21
SIF
TUNER
IF+
IF−
I2S−C
AJ5
IC8001 CORE 240H
AG11
AJ9
AK5
I2S−A
4
IC3P01 DSP
40
3
IC3D03 D\A CONV
10
11
R
L
IC3E02 AUDIO OUT
2
14
28
21
ES
1
5
SPEAKERS
SPDIF
53
39
IC8312 SPDIF SELECT
52
DIGITAL SOUND
HDMI SPDIF
78
I2SS−DATD
81
IC2001 HDMI PROC.
IC2101 HDMI SEL
HDMI−1
HDMI−2
HDMI−3
HDMI−4
FRONT
V39+ ONLY

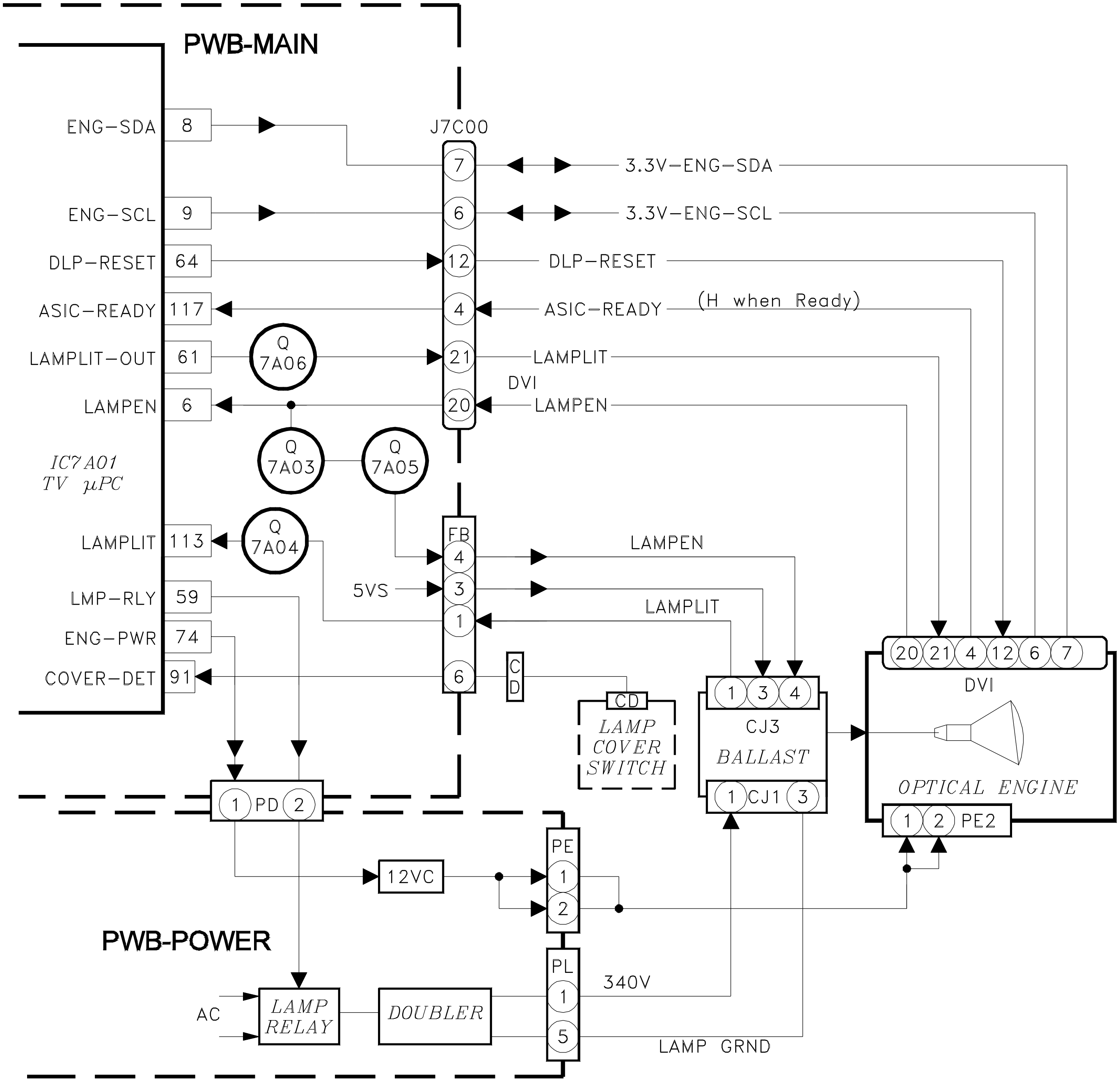
SOUND SIGNAL PATH

OVERALL CONTROL CIRCUIT

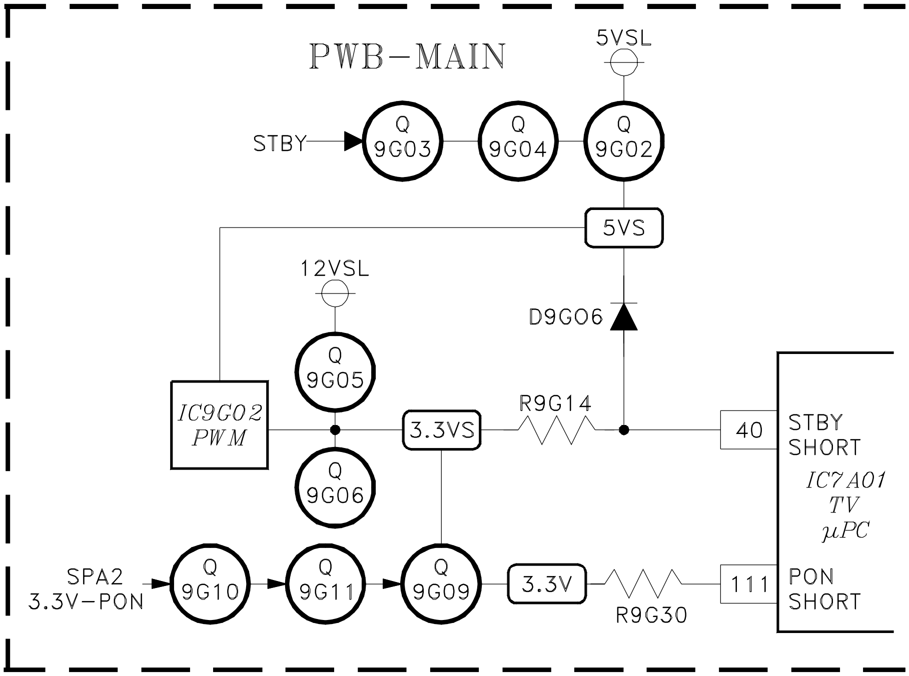

SYST5 OUT
OPTICAL ENG
J7C00
3D CABLE
3
3D
STEREO SYNC
WIRED–RMC
IR–OUT
V39+ ONLY
IC2E01 NAND
Q 2E02
WIRED RMC CARRIER
ASIC–CLK
ASIC–CS
ASIC–MTOD
ASIC–DTOM
3.3V–ENG–SCL
3.3V–ENG–SDA
IC8307 UART EXPANDER
5
7
IC8312 LATCH/ CPLD
IC7G00 SPA2
SYS5–CARRIER
REM–OUT
RXA
TXA
9
8
79
78
IC8001 Xilleon CORE
DM μPC
PWB PREAMP
PWB CNTRL
4
2
LE
8
7
IR–IN
126
103
102
RMC
KSC0
KSC1
ENG–SCL
ENG–SDA
DM–TXD
DM–RXD
IC7A01 TV μPC
3.3V–SDA
3.3V–SCL
37
38
I2CDATB
I2CCLKB
TUNER
HDMI
AUDIO CIRCUIT
HD DEMOD (V38)
67
66
32
31
IC7E01 MAIN A/D
IC2J01 SIGNAL SELECT
PWB–MAIN
USB
FRONT USB


R-AVR OUT
AVR-DET
DIGITAL AUDIO OUT
SPDIF-DET
FRONT HDMI (V39+/V39++ ONLY)
5V
20
HD1
HOT PLUG
70
FRONT INPUTS
V/Y
Pb
12
CE
11
FRNT CV-DET
95
FRNT YUV-DET
93
21
60
IC2001 HDMI RECEIVER
HDMI-DETF
90
30
3.3V-SDA
32
37
31
38
3.3V-SCL
IC2J01 ANALOG SIGNAL SELECT
IC7A01 TV µPC
J2201
HDMI-1
HDMI-DETR-1
87
5V
18
HDMI-DETR-2
88
5V
18
J2301
HDMI-2
HDMI-DETR-3
89
5V
18
J2401
HDMI-3
INP1
VIDEO/Y
CV1-DET
89
S-Y/C1
S1-DET
7
Pb
YUV1-DET
91
INP2
Pb
YUV2-DET
83
INP3
V1
CV3-DET
19
PWB-MAIN

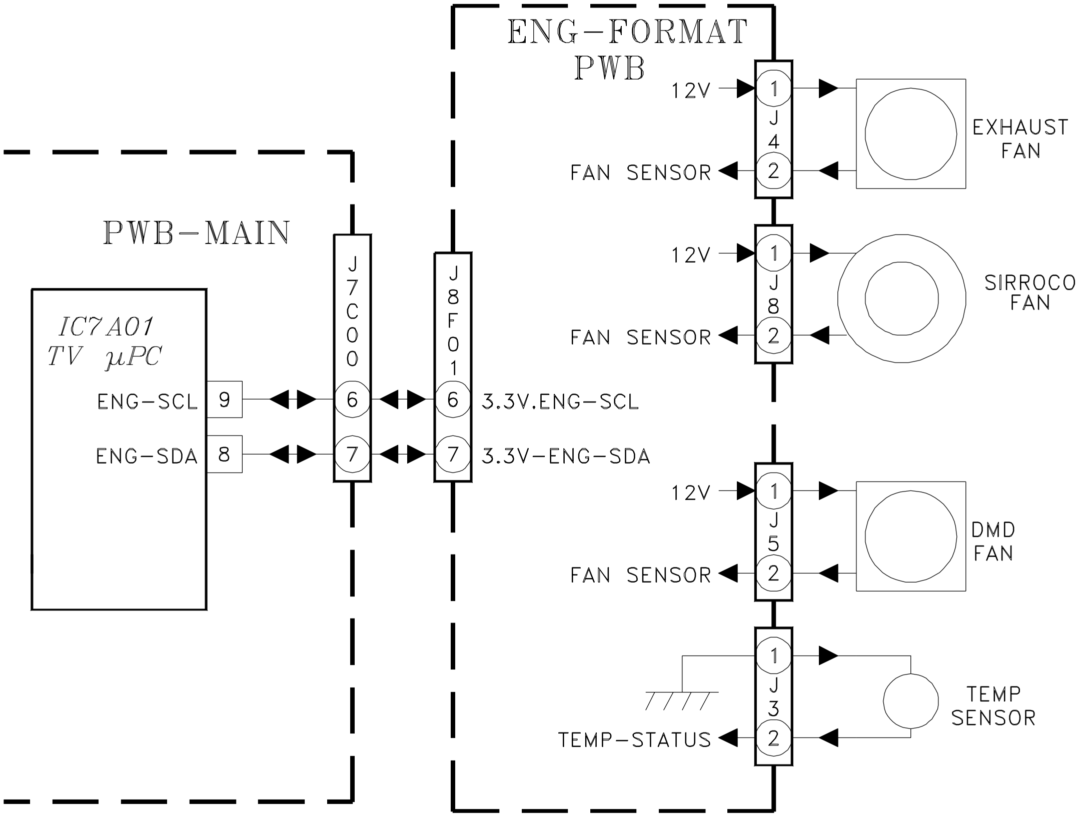
INPUT/OUTPUT AUTO DETECT


PWB-MAIN
ENG-SDA
8
ENG-SCL
9
DLP-RESET
64
ASIC-READY
117
LAMPLIT-OUT
61
LAMPEN
6
IC7A01
TV µPC
LAMPLIT
113
LMP-RLY
59
ENG-PWR
74
COVER-DET
91
Q 7A06
Q 7A03
Q 7A05
Q 7A04
J7C00
7
6
12
4
21
20
3.3V-ENG-SDA
3.3V-ENG-SCL
DLP-RESET
ASIC-READY
(H when Ready)
LAMPLIT
DVI
LAMPEN
FB
4
3
1
6
5VS
LAMPEN
LAMPLIT
CD
CD
LAMP COVER SWITCH
1 3 4
CJ3
BALLAST
1 CJ1 3
20 21 4 12 6 7
DVI
OPTICAL ENGINE
1 2 PE2
1 PD 2
12VC
PE
1
2
PL
1
5
340V
LAMP GRND
PWB-POWER
AC
LAMP RELAY
DOUBLER

LAMP CONTROL CIRCUITRY

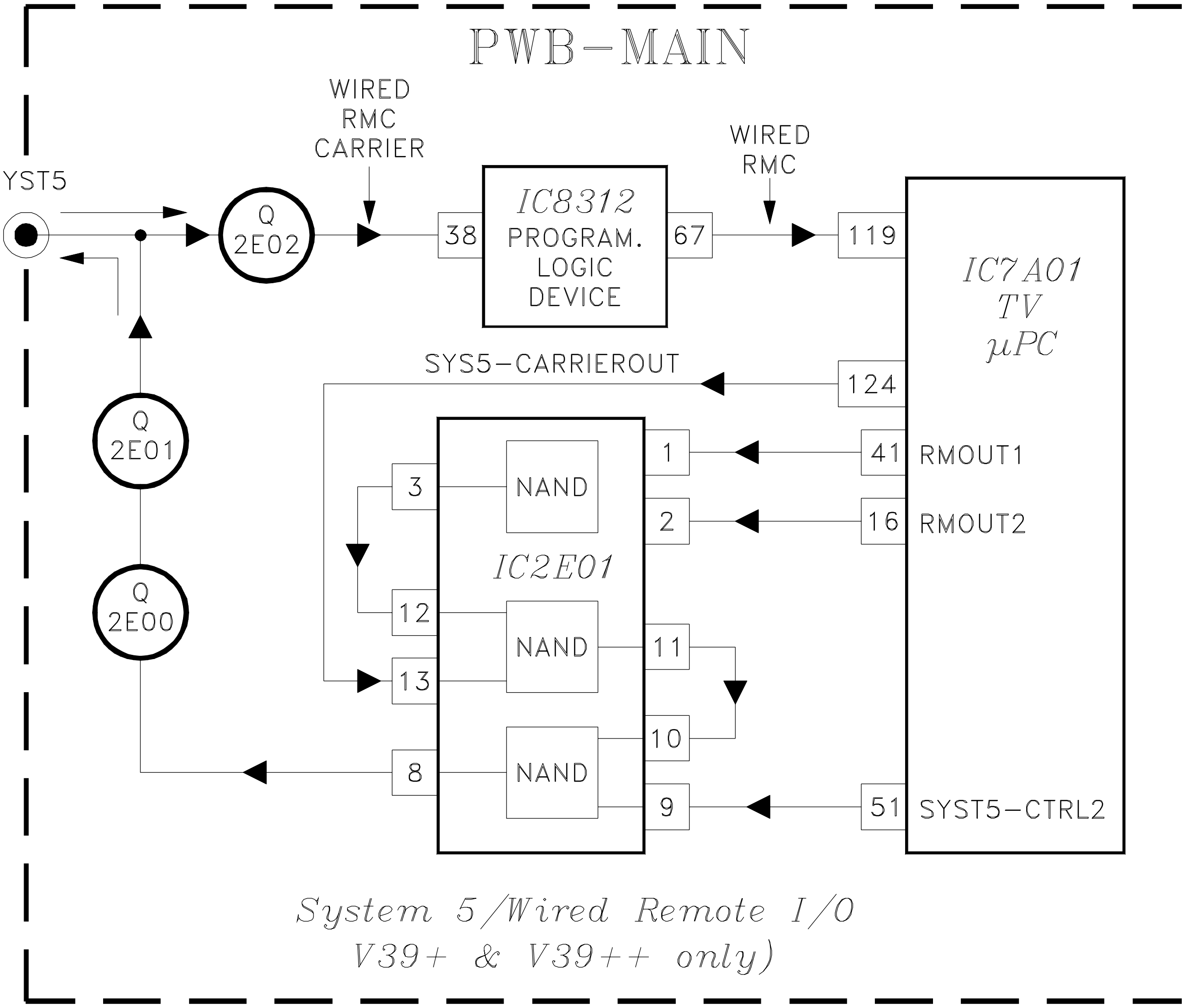

PWB-MAIN
5VSL
STBY
Q 9G03
Q 9G04
Q 9G02
5VS
12VSL
D9G06
Q 9G05
IC9G02 PWM
3.3VS
R9G14
40
STBY SHORT
IC7A01 TV µPC
Q 9G06
SPA2 3.3V-PON
Q 9G10
Q 9G11
Q 9G09
3.3V
R9G30
111
PON SHORT

SHORT DETECT CIRCUITRY

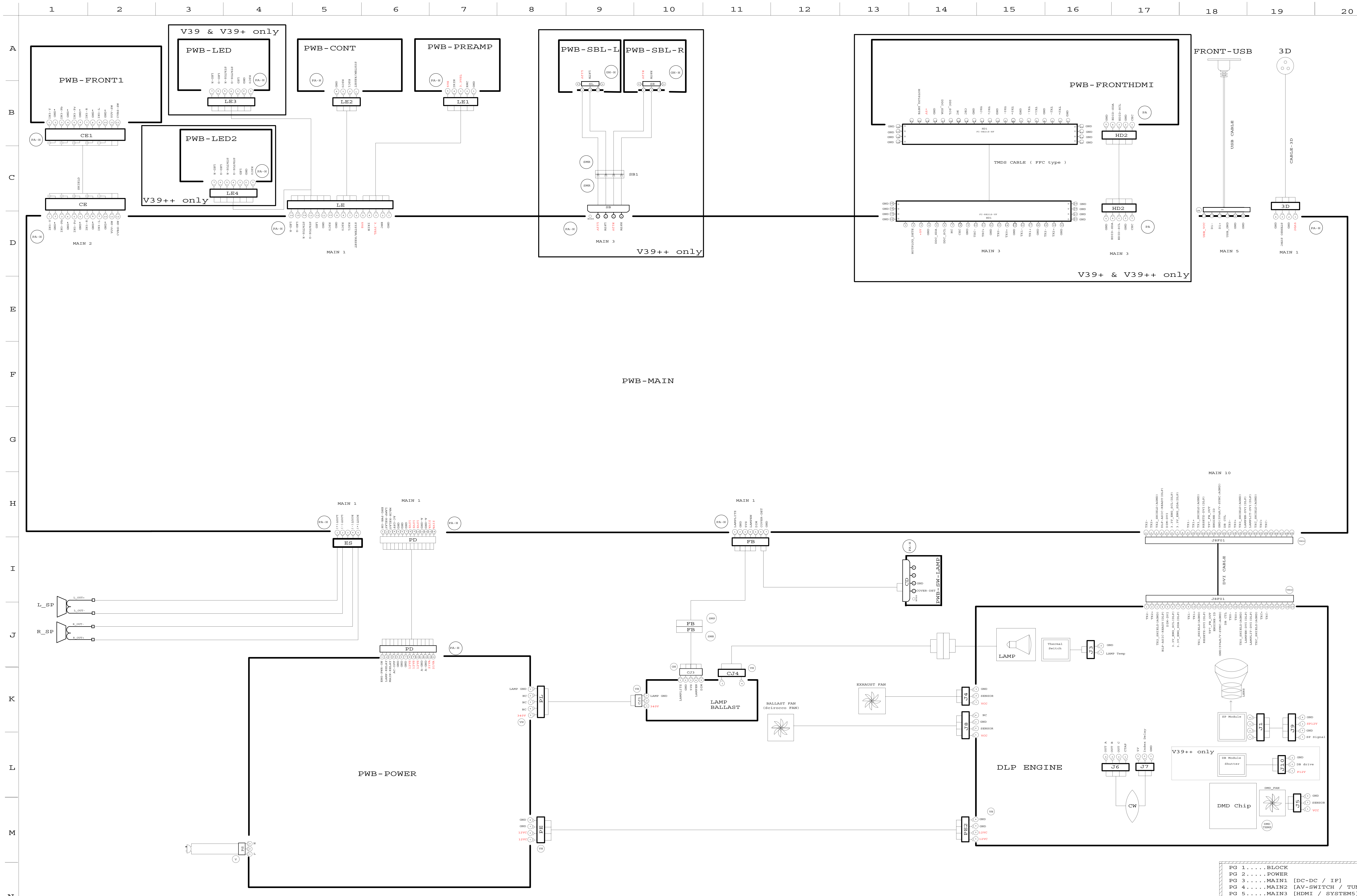

ENG-FORMAT PWB
12V
1
J4
2
FAN SENSOR
EXHAUST FAN
PWB-MAIN
12V
J8
FAN SENSOR
SIRROCO FAN
IC7A01 TV µPC
J7C00
J8F01
ENG-SCL
9
6
6
3.3V.ENG-SCL
ENG-SDA
8
7
7
3.3V-ENG-SDA
12V
J5
FAN SENSOR
DMD FAN
J3
TEMP-STATUS
TEMP SENSOR

ENGINE PROTECT CIRCUITRY

System 5 / Wired Remote I/O


PWB-MAIN
WIRED RMC CARRIER
WIRED RMC
SYST5
Q 2E02
38
IC8312 PROGRAM. LOGIC DEVICE
67
119
IC7A01 TV μPC
SYS5-CARRIEROUT
124
Q 2E01
Q 2E00
3
NAND
1
41
RMOUT1
2
16
RMOUT2
IC2E01
12
NAND
13
11
10
8
NAND
9
51
SYST5-CTRL2

System 5/Wired Remote I/O V39+ & V39++ only)


1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
PWB-FRONT1
CE1
CE
MAIN 2
V39 & V39+ only
PWB-LED
LE3
PWB-LED2
LE4
V39++ only
PWB-CONT
LE2
PWB-PREAMP
LE1
LE
MAIN 1
PWB-SBL-L
PWB-SBL-R
SL
SR
SB1
SB
MAIN 3
V39++ only
PWB-FRONTHDMI
TMDS CABLE (FFC type)
HD2
MAIN 3
V39+ & V39++ only
FRONT-USB
USB CABLE
MAIN 5
3D
CABLE-3D
MAIN 1
PWB-MAIN
MAIN 1
ES
PD
FB
MAIN 10
J8P01
DVI CABLE
L_SP
R_SP
CD
PWB-SW-LAMP
FB
CJ3
CJ4
LAMP BALLAST
BALLAST FAN (Scirocco FAN)
EXHAUST FAN
LAMP
Thermal Switch
J3
J4
J8
J1
J9
J10
J6
J7
J5
J2
LAMP Temp
CW
V39++ only
DB Module Shutter
DMD Chip
DMD_FAN
DMD TEMP
DLP ENGINE
PWB-POWER
PL
PE
PE2

PG 1.....BLOCK
V39-V39++

* NOTES

1. DC voltages were measured from points indicated to the circuit ground with a high-Z voltmeter
2. Wave form were taken with standard color bar signal.
3. TP13.etc. show test points.
4. CAPACITOR

Value			Not indicated [PF, for numbers more than 1 uF, for numbers less than 1]
Dielectric strength			Not indicated : 50V
Tolerance			Not indicated = +/- 10% [No tolerance is indicated for electrolytic capacitor and +/- 20%] G=+/-2% P=+100% Q=+30% C=+/-0.25PF J=+/-5% -0% -10% D=+/-0.5PF K=+/-10% Z=+80% T=+200% F=+/-1PF M=+/-20% -20% -0% D=+/-2PF
Type	I	Parts except for chips	Not indicated: Ceramic capacitor MF : Polyester capacitor PP : Polypropylene film capacitor ALM : Aluminus electrolytic capacitor TF : Twin film capacitor SC : Semiconductor Ceramic capacitor MP : Metalized paper MPP : Metalized plastic film capacitor MMF : Metalized polyester capacitor MF,PP : Polyester polypropylene film capacitor PS : Styrol capacitor TAN or TANT : Tantalum capacitor +‖ : Electrolytic capacitor NP : Non polarized electrolytic capacitor
	II	chips	Not indicated : Ceramic capacitor chip +‖ : Electrolytic capacitor NP : Non polarized electrolytic capacitor chip
Characteristic (Only ceramic capacitor)			Not indicated : F or B (high dielrctric percentage) CH, SL, etc. : Temperature compensaing types

5. RESITOR

Value			Not indicated = Ohm K = 1,000 Ohm M = 1,000,000 Ohm
Wattage	Parts except for chips		Not indicated = 1/4W or 1/6W
	Chips		Not indicated = 1/10W
Toler ance			Not indicated = +/-5% D = +/-0.5% J = +/-5% F = +/-1% K = +/-10%
Type	I	Parts except for chips	Not indicated : Carbon resistor S : Fixed composition resistor MB : Metal oxide film resistor(Type B) CE : Cemented resistor W : Wire wound resistor M : Metal film resistor MP : Metal plate cement resistor ML : Metal liner resistor
	II	chips	Not indicated : chip resistor

6. This is a basic schematic diagram. Some sets may be subject to modification according to engineering improvement
7. Some parts are listed with a ⚠ symbol indicating saftey. These parts must be replaced with the same part number.

SHADED COMPONENTS HAVE SPECIAL CHARACTERISTICS IMPORTANT TO SAFETY. BEFORE REPLACING ANY OF THESE COMPONENTS, READ CAREFULLY THE PRODUCT SAFETY NOTICE IN THE SERVICE MANUAL. DON'T DEGRADE THE SAFETY OF THE RECEIVERS THROUGH IMPROPER SERVICING.

SERVICE TECHNICIAN WARNING;

X-RADIATION PRECAUTION

THIS PRODUCT INCLUDES CRITICAL ELECTRICAL AND MECHANICAL PARTS ESSENTIAL FOR X-RADIATION PROTECTION

TO AVOID EXPOSURE TO X-RADIATION TAKE RADIATION PROTECTIVE MEASURE FOR PERSONNEL DOING SERVICING.

SEE SERVICE INSTRUCTION FOR SPECIFIED REPLACEMENT PARTS AND SERVICE ADJUSTMENTS.

CONTENTS

PG 1.....BLOCK
PG 2.....POWER
PG 3.....MAIN1 [DC-DC / IF]
PG 4.....MAIN2 [AV-SWITCH / TUNER]
PG 5.....MAIN3 [HDMI / SYSTEM5]
PG 6.....MAIN4 [DM-CORE]
PG 7.....MAIN5 [DM-MEMORY]
PG 8.....MAIN6 [DM-ROM / AV]
PG 9.....MAIN7 [ANALOG-DIGITAL CONVERTOR]
PG 10....MAIN8 [SPA3 MAIN]
PG 11....MAIN9 [SPA3 MEMORY]
PG 12....MAIN10 [TMDS]
PG 13....MAIN11 [AUDIO]
PG 14....MAIN12 [MICRO]
PG 15....MISC [CONT/PREAMP/SBL/FRONT/HDMI/SW-LAMP/LED]

WD-60735	V39
WD-65735	V39
WD-73735	V39
WD-73C8	V39C
WD-63736	V39+
WD-73736	V39+
WD-65835	V39++
WD-73835	V39++
WD-60C8	V39C
WD-65C8	V39C

PG 2.....POWER

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
A
B
C
D
E
F
G
H
I
J
K
(TO LAMP BALLAST)
PL
LAMP BALLAST POWER SUPPLY.
DOUBLER CIRCUIT.
LAMP BALLAST SWITCH
LAMP IN-RUSH RELAY.
LIVE
COLD
IC9A10 IN-RUSH RELAY.
MAIN POWER
SUPPLY
BRIDGE DIODE
IC9A10
MAIN POWER SUPPLY
(12VS AND
AUDIO VCC)
IC9A10
AUDIO 21V SUPPLY
AUDIO SUPPLY PRE-LOAD
ET9A02
CHASSIS/ENGINE 12V SUPPLY
ENGINE POWER FET SWITCH
LIVE
COLD
IC9A20
RT9H301C
AC-OFF DETECT.
AC-OFF BUFFER
PD
(TO MAIN BOARD)
PE
(TO DLP - ENG)
RV9D01
RV9D00
PS
(TO AC POWER CORD)
ET9A01

CONTENTS

PG 1.....BLOCK
PG 2.....POWER
PG 3.....MAIN1 [DC-DC / IF]
PG 4.....MAIN2 [AV-SWITCH / TUNER]
PG 5.....MAIN3 [HDMI / SYSTEM5]
PG 6.....MAIN4 [DM-CORE]
PG 7.....MAIN5 [DM-MEMORY]
PG 8.....MAIN6 [DM-ROM / AV]
PG 9.....MAIN7 [ANALOG-DIGITAL CONVERTOR]
PG 10....MAIN8 [SPA3 MAIN]
PG 11....MAIN9 [SPA3 MEMORY]
PG 12....MAIN10 [TMDS]
PG 13....MAIN11 [AUDIO]
PG 14....MAIN12 [MICRO]
PG 15....MISC [CONT/PREAMP/SBL/FRONT/HDMI/SW-LAMP/LED]

WD-60735	V39
WD-65735	V39
WD-73735	V39
WD-73C8	V39C
WD-63736	V39+
WD-73736	V39+
WD-65835	V39++
WD-73835	V39++
WD-60C8	V39C
WD-65C8	V39C

PAGE 2

PG 3.....MAIN1 [DC-DC / IF]

12VSL TO 5VSL
IC9G01
AOZ1010AI
FDC655BN
Q9G02
IC9C51
MM1663DHBE
IC9G80
MIC2040-1YMM TR
IC9G05
NJM2386ADL3-09
12VSL TO 3.3VS
IC9G02
ISL6545ACBZ-TS2698
FDS8298
Q9G05
FDS8896
Q9G06
3.3VS
Q9G09
FDS8896
3.3VS TO 1.2VS
IC9G03
ISL6545ACBZ-TS2698
Q9G12
FDS8984
3D
PD
LE
FB
ES
TO PWB-PREAMP/CONT/LED
TO LAMP-BALLAST
TO SPEAKER
TO MAIN 10 (TMDS)
TO MAIN 12 (TVMICRO)
TO MAIN 11 (AUDIO)
TO (TVMICRO)
TO (DMCORE)
DGND

CONTENTS

PG 1.....BLOCK
PG 2.....POWER
PG 3.....MAIN1 [DC-DC / IF]
PG 4.....MAIN2 [AV-SWITCH / TUNER]
PG 5.....MAIN3 [HDMI / SYSTEM5]
PG 6.....MAIN4 [DM-CORE]
PG 7.....MAIN5 [DM-MEMORY]
PG 8.....MAIN6 [DM-ROM / AV]
PG 9.....MAIN7 [ANALOG-DIGITAL CONVERTOR]
PG 10....MAIN8 [SPA3 MAIN]
PG 11....MAIN9 [SPA3 MEMORY]
PG 12....MAIN10 [TMDS]
PG 13....MAIN11 [AUDIO]
PG 14....MAIN12 [MICRO]
PG 15....MISC[CONT/PREAMP/SBL/FRONT/HDMI/SW-LAMP/LED]

WD-60735 V39
WD-65735 V39
WD-73735 V39
WD-73C8 V39C
WD-63736 V39+
WD-73736 V39+
WD-65835 V39++
WD-73835 V39++
WD-60C8 V39C
WD-65C8 V39C

PG 4.....MAIN2 [AV-SWITCH / TUNER]

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
A
B
C
D
E
F
G
H
I
J
K
TO FRONT PWB
CE
P2J01
YLC21-3309V (MI)
AVR-L
AVR-R
SPDIF
DVI-R
DVI-L
R2
L2
R1
L1
P2J02
YLC21-3308V (MI)
R3
L3
CV3
Y2
PB2
PR2
Y1/CV1
PB1
PR1
P2J03
YKC22-0829V (MI)
MUTE AVR
IC2J01
MM1783BQ
S/PDIF AUDIO OUTPUT
SIF DEMODULATOR
IC3F01
AN5832SA-E1V
TUNER
ANT SWITCH
Ant.2
Ant.1
TU101
115U4XXXAM
IC102
MAX4232AKA+T
MAIN SYNC DETECT
MAIN 03
MAIN 11
MAIN 11
MAIN 01
MAIN 12
MAIN 12
MAIN 12
MAIN 1
MAIN 6
MAIN 4
MAIN 4
MAIN 11
MAIN 11
MAIN 11
MAIN 11
MAIN 04
MAIN 04
MAIN 04
MAIN 04
MAIN 04
MAIN 01
MAIN 04
MAIN 04
MAIN 12
MAIN 01
MAIN 07
MAIN 07
MAIN 11
MAIN 11
MAIN 12
MAIN 04
MAIN 07

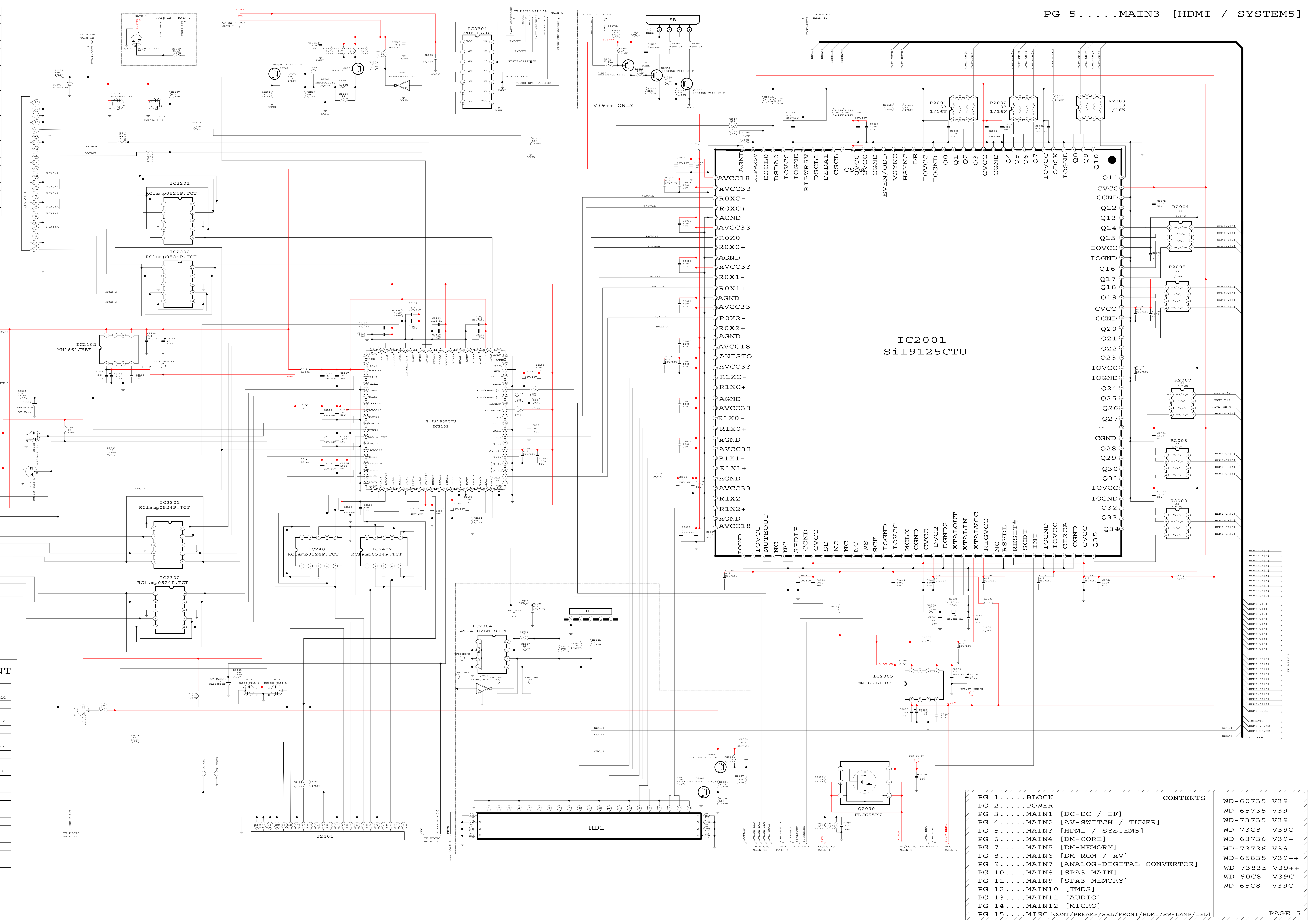
CONTENTS

PG 1.....BLOCK
PG 2.....POWER
PG 3.....MAIN1 [DC-DC / IF]
PG 4.....MAIN2 [AV-SWITCH / TUNER]
PG 5.....MAIN3 [HDMI / SYSTEM5]
PG 6.....MAIN4 [DM-CORE]
PG 7.....MAIN5 [DM-MEMORY]
PG 8.....MAIN6 [DM-ROM / AV]
PG 9.....MAIN7 [ANALOG-DIGITAL CONVERTOR]
PG 10....MAIN8 [SPA3 MAIN]
PG 11....MAIN9 [SPA3 MEMORY]
PG 12....MAIN10 [TMDS]
PG 13....MAIN11 [AUDIO]
PG 14....MAIN12 [MICRO]
PG 15....MISC[CONT/PREAMP/SBL/FRONT/HDMI/SW-LAMP/LED]

WD-60735	V39
WD-65735	V39
WD-73735	V39
WD-73C8	V39C
WD-63736	V39+
WD-73736	V39+
WD-65835	V39++
WD-73835	V39++
WD-60C8	V39C
WD-65C8	V39C

PG 5.....MAIN3 [HDMI / SYSTEM5]

PIN	Signal Assignment
1	T.M.D.S. Data 2+
2	T.M.D.S. Data 2 Shield
3	T.M.D.S. Data 2-
4	T.M.D.S. Data 1+
5	T.M.D.S. Data 1 Shield
6	T.M.D.S. Data 1-
7	T.M.D.S. Data 0+
8	T.M.D.S. Data 0 Shield
9	T.M.D.S. Data 0-
10	T.M.D.S. Clock+
11	T.M.D.S. Clock Shield
12	T.M.D.S. Clock-
13	CEC
14	Reserve
15	DDC Clock
16	DDC Data
17	Ground (return for +5V,
18	+5V Power
19	Hot Plug Detect
Shell	FG
(20)	Location Post (GND)
(21)	Location Post (GND)
(22)	Location Post (GND)
(23)	Location Post (GND)


1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
A
B
C
D
E
F
G
H
I
J
K
J2201
IC2201
RClamp0524P.TCT
IC2202
RClamp0524P.TCT
IC2102
MM1661JHBE
IC2E01
74HC32DB
SB
V39++ ONLY
SiI9185ACTU
IC2101
IC2301
RClamp0524P.TCT
IC2302
RClamp0524P.TCT
IC2401
RClamp0524P.TCT
IC2402
RClamp0524P.TCT
J2301
J2401
IC2004
AT24C02BN-SH-T
HD2
HD1
IC2001
SiI9125CTU
R2001
R2002
R2003
R2004
R2005
R2007
R2008
R2009
IC2005
MM1661JHBE
Q2090
FDC655BN
TV MICRO MAIN 12
DC/DC IO MAIN 1
3.3VSL
1.8V-HDMI
ADC MAIN 7
DSCL1
DSDA1
CEC_A

HDMI-FRONT

PIN	Signal Assignment
21	T.M.D.S. Data 2 Shield
20	T.M.D.S. Data 2+
19	T.M.D.S. Data 2-
18	T.M.D.S. Data 1 Shield
17	T.M.D.S. Data 1+
16	T.M.D.S. Data 1-
15	T.M.D.S. Data 0 Shield
14	T.M.D.S. Data 0+
13	T.M.D.S. Data 0-
12	T.M.D.S. Clock Shield
11	T.M.D.S. Clock+
10	T.M.D.S. Clock-
9	GND
8	NC
7	NC
6	NC
5	NC
4	+5V Return
3	+5V
2	Hot Plug Detect
1	GND

CONTENTS

PG 1.....BLOCK
PG 2.....POWER
PG 3.....MAIN1 [DC-DC / IF]
PG 4.....MAIN2 [AV-SWITCH / TUNER]
PG 5.....MAIN3 [HDMI / SYSTEM5]
PG 6.....MAIN4 [DM-CORE]
PG 7.....MAIN5 [DM-MEMORY]
PG 8.....MAIN6 [DM-ROM / AV]
PG 9.....MAIN7 [ANALOG-DIGITAL CONVERTOR]
PG 10....MAIN8 [SPA3 MAIN]
PG 11....MAIN9 [SPA3 MEMORY]
PG 12....MAIN10 [TMDS]
PG 13....MAIN11 [AUDIO]
PG 14....MAIN12 [MICRO]
PG 15....MISC [CONT/PREAMP/SBL/FRONT/HDMI/SW-LAMP/LED]

WD-60735	V39
WD-65735	V39
WD-73735	V39
WD-73C8	V39C
WD-63736	V39+
WD-73736	V39+
WD-65835	V39++
WD-73835	V39++
WD-60C8	V39C
WD-65C8	V39C

PG 6.....MAIN4 [DM-CORE]

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D
E
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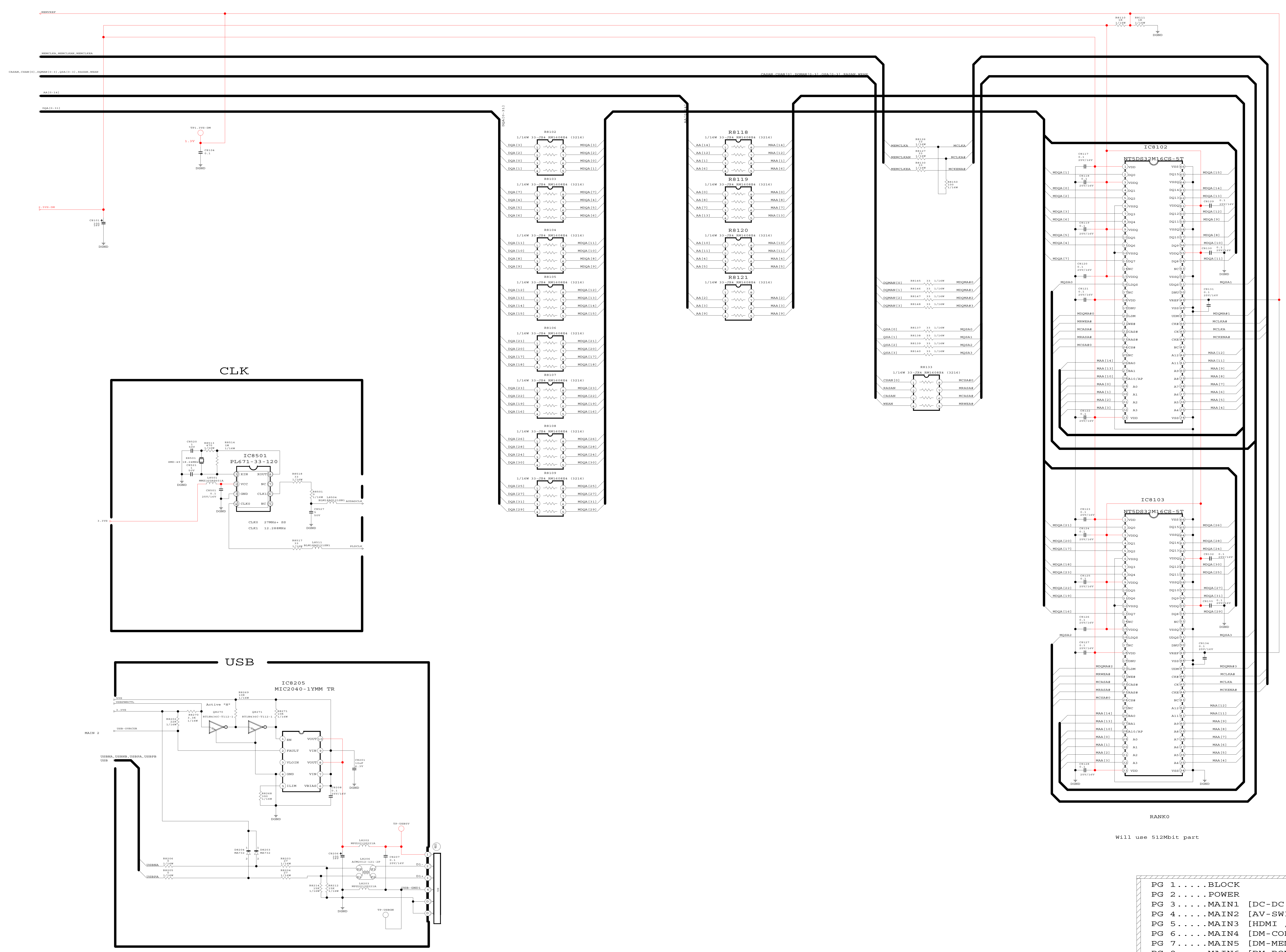
G
H
I
J
K
IC8001
X215H48AGA21HG/X215H48BGA21HG
IC8010
SC4215ISTRT
1.8V
1.8V
IC8011
SC4215ISTRT
BOOT STRAPS
For TUNER on MAIN 2
MAIN 6
MAIN 1
MAIN 3
MAIN 9
DGND

CONTENTS

PG 1.....BLOCK
PG 2.....POWER
PG 3.....MAIN1 [DC-DC / IF]
PG 4.....MAIN2 [AV-SWITCH / TUNER]
PG 5.....MAIN3 [HDMI / SYSTEM5]
PG 6.....MAIN4 [DM-CORE]
PG 7.....MAIN5 [DM-MEMORY]
PG 8.....MAIN6 [DM-ROM / AV]
PG 9.....MAIN7 [ANALOG-DIGITAL CONVERTOR]
PG 10....MAIN8 [SPA3 MAIN]
PG 11....MAIN9 [SPA3 MEMORY]
PG 12....MAIN10 [TMDS]
PG 13....MAIN11 [AUDIO]
PG 14....MAIN12 [MICRO]
PG 15....MISC [CONT/PREAMP/SBL/FRONT/HDMI/SW-LAMP/LED]

WD-60735	V39
WD-65735	V39
WD-73735	V39
WD-73C8	V39C
WD-63736	V39+
WD-73736	V39+
WD-65835	V39++
WD-73835	V39++
WD-60C8	V39C
WD-65C8	V39C

PG 7.....MAIN5 [DM-MEMORY]


CLK
IC8501
PL671-33-120
X8501
18.24MHz
SMD-49
L8501
MMZ1608S601A
CLK0 27MHz+ SS
CLK1 12.288MHz
AUDADCLK
PLDCLK
DGND
USB
IC8205
MIC2040-1YMM TR
Active "H"
Q8270
RT1N436C-T112-1
Q8271
RT1N436C-T112-1
MAIN 2
R8118
R8119
R8120
R8121
IC8102
NT5DS32M16CS-5T
IC8103
NT5DS32M16CS-5T
RANK0
Will use 512Mbit part

CONTENTS

PG 1.....BLOCK
PG 2.....POWER
PG 3.....MAIN1 [DC-DC / IF]
PG 4.....MAIN2 [AV-SWITCH / TUNER]
PG 5.....MAIN3 [HDMI / SYSTEM5]
PG 6.....MAIN4 [DM-CORE]
PG 7.....MAIN5 [DM-MEMORY]
PG 8.....MAIN6 [DM-ROM / AV]
PG 9.....MAIN7 [ANALOG-DIGITAL CONVERTOR]
PG 10....MAIN8 [SPA3 MAIN]
PG 11....MAIN9 [SPA3 MEMORY]
PG 12....MAIN10 [TMDS]
PG 13....MAIN11 [AUDIO]
PG 14....MAIN12 [MICRO]
PG 15....MISC [CONT/PREAMP/SBL/FRONT/HDMI/SW-LAMP/LED]

WD-60735	V39
WD-65735	V39
WD-73735	V39
WD-73C8	V39C
WD-63736	V39+
WD-73736	V39+
WD-65835	V39++
WD-73835	V39++
WD-60C8	V39C
WD-65C8	V39C

PG 8.....MAIN6 [DM-ROM / AV]

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A
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D
E
F
G
H
I
J
K
IC8322
KFG1216U2B-DIB60
IC8321
MD2534-d1G-X-P/Y
IC8302
S29AL004D70TFI010H
IC8307
SC16C652BIB48
IC8312
LCMX0256C-3TN100C
L8302
MMZ1608S601A
C8310
C8311
DGND
JT

CONTENTS
PG 1.....BLOCK
PG 2.....POWER
PG 3.....MAIN1 [DC-DC / IF]
PG 4.....MAIN2 [AV-SWITCH / TUNER]
PG 5.....MAIN3 [HDMI / SYSTEM5]
PG 6.....MAIN4 [DM-CORE]
PG 7.....MAIN5 [DM-MEMORY]
PG 8.....MAIN6 [DM-ROM / AV]
PG 9.....MAIN7 [ANALOG-DIGITAL CONVERTOR]
PG 10....MAIN8 [SPA3 MAIN]
PG 11....MAIN9 [SPA3 MEMORY]
PG 12....MAIN10 [TMDS]
PG 13....MAIN11 [AUDIO]
PG 14....MAIN12 [MICRO]
PG 15....MISC [CONT/PREAMP/SBL/FRONT/HDMI/SW-LAMP/LED]

WD-60735	V39
WD-65735	V39
WD-73735	V39
WD-73C8	V39C
WD-63736	V39+
WD-73736	V39+
WD-65835	V39++
WD-73835	V39++
WD-60C8	V39C
WD-65C8	V39C

PG 9.....MAIN7 [ANALOG-DIGITAL CONVERTOR]

ADC
IC7E01
AD9981KSTZ-80
Filter for 3DYC OUTPUT from X240H
3.3V
MAIN-PB
MAIN-Y
MAIN-PR
1.8V
3.3VSCL
3.3VSDA
1.8V-HDMI
GND
R7E24 56 1/16W
R7E23 56 1/16W
R7E19 56
R7E20 56 1/16W
TO MAIN 009 (SPA3MAIN)

CONTENTS

PG 1.....BLOCK
PG 2.....POWER
PG 3.....MAIN1 [DC-DC / IF]
PG 4.....MAIN2 [AV-SWITCH / TUNER]
PG 5.....MAIN3 [HDMI / SYSTEM5]
PG 6.....MAIN4 [DM-CORE]
PG 7.....MAIN5 [DM-MEMORY]
PG 8.....MAIN6 [DM-ROM / AV]
PG 9.....MAIN7 [ANALOG-DIGITAL CONVERTOR]
PG 10....MAIN8 [SPA3 MAIN]
PG 11....MAIN9 [SPA3 MEMORY]
PG 12....MAIN10 [TMDS]
PG 13....MAIN11 [AUDIO]
PG 14....MAIN12 [MICRO]
PG 15....MISC[CONT/PREAMP/SBL/FRONT/HDMI/SW-LAMP/LED]

WD-60735	V39
WD-65735	V39
WD-73735	V39
WD-73C8	V39C
WD-63736	V39+
WD-73736	V39+
WD-65835	V39++
WD-73835	V39++
WD-60C8	V39C
WD-65C8	V39C

PG 10....MAIN8 [SPA3 MAIN]

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A
B
C
D
E
F
G
H
I
J
K
[TO MAIN 03(HDMI)]
HDMI-CR[0-9]
HDMI-Y[0-9]
HDMI-CB[0-9]
HDMI-ODCK
HDMI-HSYNC
HDMI-VSYNC
[TO MAIN 06(DMROM/AV)]
ASIC-RST
ASIC-DTOM
ASIC-CS
ASIC-MTOD
ASIC-CLK
R7G33 22
[TO MAIN 08(ADC)]
HOLD-SO
CLAMP-SO
REFH-SO
CR-SIA[0-9]
Y-SIA[0-9]
VS-SI
HS-SI
PLLH-SI
CLK-SI
[TO MAIN 04(DMCORE)]
656CCLK,656CD[0-7]
OSDSEL1
IC7G00
MB8AA1700 PBH-ESE1
IC7G01
SC4215ISTRT
NC
EN
VIN
NC
GND
ADJ
VO
NC
R7G89 4.7K 1/16W
R7G90 10K 1/16W
TP2.5V-SPA
2.5V
C7GB9 K-4.7M B6.3V
L7G25
C7GB4 0.1 25V/16V
C7GB5 M-100 16V
C7GB6 0.1 25V/16V
C7GB8 100 16V
DGND
1.2VS
3.3V
[TO MAIN 01(DCDC/IF)]
R7G65 22
R7G00 22
R7G01 22
R7G02 22
R7G03 22
R7G04 22
R7G05 22
R7G06 22
R7G09 22
R7G10 22
R7G11 22
R7G12 22
R7G13 22
R7G63 22
R7G66 22
R7G67 56
R7G68 56
R7G69 56
R7G70 56
R7G62 56
R7G58 56
R7G56 56
R7G57 56
R7G30 22 1/16W
R7G31 22 1/16W
R7G32 22 1/16W
R7G55 56
R7G14 56
R7G53 56
R7G54 56
R7G64 56
R7G61 56
R7G60 56
R7G59 56
OUTGA[0-9],SPACLKOUT
OUTBA[0-9]
OUTRA[0-9]
OUTGB[0-9]
OUTBB[0-9]
OUTRB[0-9]
[TO MAIN 011(TMDS)]
S0D[0-15]
VTT-REF
S1D[0-15]
SAD[0-13]
S2D[0-15]
S3D[0-15]
S0DQL
S0DQU
S1DQU
S1DQL
S0CKP
S0CKN
WE
CAS
RAS
S2CKP
S2CKN
S2DQU
SPASDVREF
S2DQL
S3DQL
S3DQU
SPA2-2.5VS
[TO MAIN 010(DDR-SDRAM FOR SPA2)]

CONTENTS

PG 1.....BLOCK
PG 2.....POWER
PG 3.....MAIN1 [DC-DC / IF]
PG 4.....MAIN2 [AV-SWITCH / TUNER]
PG 5.....MAIN3 [HDMI / SYSTEM5]
PG 6.....MAIN4 [DM-CORE]
PG 7.....MAIN5 [DM-MEMORY]
PG 8.....MAIN6 [DM-ROM / AV]
PG 9.....MAIN7 [ANALOG-DIGITAL CONVERTOR]
PG 10....MAIN8 [SPA3 MAIN]
PG 11....MAIN9 [SPA3 MEMORY]
PG 12....MAIN10 [TMDS]
PG 13....MAIN11 [AUDIO]
PG 14....MAIN12 [MICRO]
PG 15....MISC [CONT/PREAMP/SBL/FRONT/HDMI/SW-LAMP/LED]

WD-60735	V39
WD-65735	V39
WD-73735	V39
WD-73C8	V39C
WD-63736	V39+
WD-73736	V39+
WD-65835	V39++
WD-73835	V39++
WD-60C8	V39C
WD-65C8	V39C

PG 11....MAIN9 [SPA3 MEMORY]

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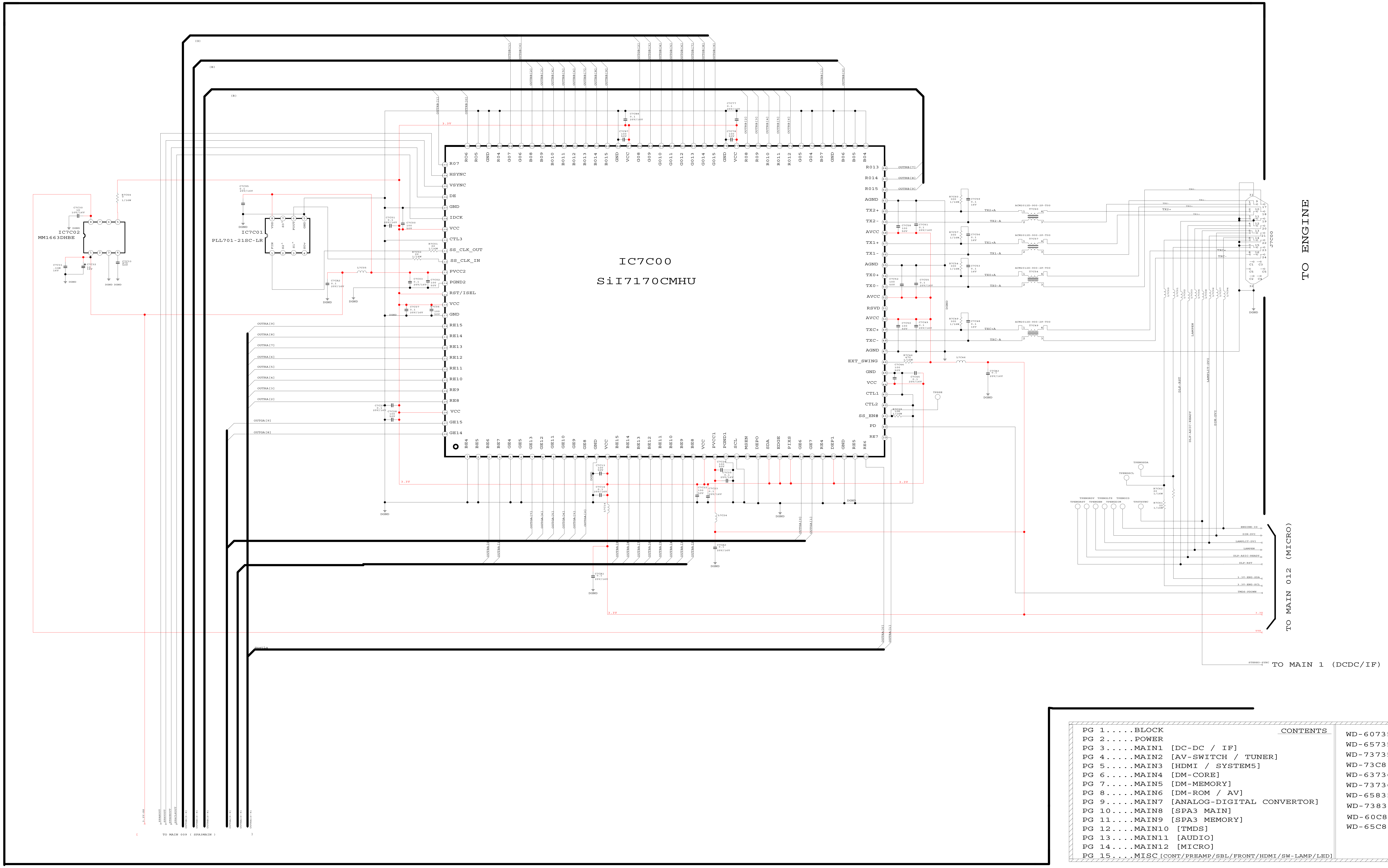
12
13
14
15
16
A
B
C
D
E
F
G
H
I
SPA2-2.5VS
SPASDVREF
S2D[0-15]
S0D[0-15]
VTT-REF
[TO MAIN 009 (SPA2MAIN)]
IC7F00
NT5DS8M16FS-5T
IC7F01
NT5DS8M16FS-5T
IC7F02
NT5DS8M16FS-5T
IC7F03
NT5DS8M16FS-5T
IC7F04
LP2996LQNOPB
TPVTTREF
L7F00
L7F01
R7F63
1/16W 10K
C7F87 0.1
C7F88 0.1
C7F89 0.1
C7F90 0.1
C7F91 0.1
C7F82 100 16V
C7F86 0.1
C7F81 0.1
C7F80 0.1 25V/16V
C7F79 47 6.3V
C7F85 0.1 25V/16V
R7F01
1/16W 33-JX4 RM1608X4 (3216)
R7F13
R7F05
R7F06
S1D[0-15]
S3D[0-15]
SAD[0-13]
S0DQL
DGND

WD-60735	V39
WD-65735	V39
WD-73735	V39
WD-73C8	V39C
WD-63736	V39+
WD-73736	V39+
WD-65835	V39++
WD-73835	V39++
WD-60C8	V39C
WD-65C8	V39C

CONTENTS

PG 1.....BLOCK
PG 2.....POWER
PG 3.....MAIN1 [DC-DC / IF]
PG 4.....MAIN2 [AV-SWITCH / TUNER]
PG 5.....MAIN3 [HDMI / SYSTEM5]
PG 6.....MAIN4 [DM-CORE]
PG 7.....MAIN5 [DM-MEMORY]
PG 8.....MAIN6 [DM-ROM / AV]
PG 9.....MAIN7 [ANALOG-DIGITAL CONVERTOR]
PG 10....MAIN8 [SPA3 MAIN]
PG 11....MAIN9 [SPA3 MEMORY]
PG 12....MAIN10 [TMDS]
PG 13....MAIN11 [AUDIO]
PG 14....MAIN12 [MICRO]
PG 15....MISC [CONT/PREAMP/SBL/FRONT/HDMI/SW-LAMP/LED]

PG 12....MAIN10 [TMDS]


IC7C00
SiI7170CMHU
IC7C01
PLL701-21SC-LR
IC7C02
MM1663DHBE
J7C00
TO ENGINE
TO MAIN 012 (MICRO)
TO MAIN 1 (DCDC/IF)
TO MAIN 009 (SPA3MAIN)
R07
HSYNC
VSYNC
DE
GND
IDCK
VCC
CTL3
SS_CLK_OUT
SS_CLK_IN
PVCC2
PGND2
RST/ISEL
VCC
GND
RE15
RE14
RE13
RE12
RE11
RE10
RE9
RE8
VCC
GE15
GE14
R013
R014
R015
AGND
TX2+
TX2-
AVCC
TX1+
TX1-
AGND
TX0+
TX0-
AVCC
RSVD
AVCC
TXC+
TXC-
AGND
EXT_SWING
GND
VCC
CTL1
CTL2
SS_EN8
PD
RE7
DGND
3.3V

CONTENTS
PG 1.....BLOCK
PG 2.....POWER
PG 3.....MAIN1 [DC-DC / IF]
PG 4.....MAIN2 [AV-SWITCH / TUNER]
PG 5.....MAIN3 [HDMI / SYSTEM5]
PG 6.....MAIN4 [DM-CORE]
PG 7.....MAIN5 [DM-MEMORY]
PG 8.....MAIN6 [DM-ROM / AV]
PG 9.....MAIN7 [ANALOG-DIGITAL CONVERTOR]
PG 10....MAIN8 [SPA3 MAIN]
PG 11....MAIN9 [SPA3 MEMORY]
PG 12....MAIN10 [TMDS]
PG 13....MAIN11 [AUDIO]
PG 14....MAIN12 [MICRO]
PG 15....MISC [CONT/PREAMP/SBL/FRONT/HDMI/SW-LAMP/LED]

WD-60735 V39
WD-65735 V39
WD-73735 V39
WD-73C8 V39C
WD-63736 V39+
WD-73736 V39+
WD-65835 V39++
WD-73835 V39++
WD-60C8 V39C
WD-65C8 V39C

PG 13....MAIN11 [AUDIO]

AUDIO ADC
IC3A01
AK5358AETP
AINR
AINL
CKS1
VCOM
AGND
VA
VD
DGND
CKS0
CKS2
DIF
PDN
SCLK
MCLK
LRCK
SDTO
MAIN-R
MAIN-L
MAIN 2
PWR MAIN 1
MAIN 4
Sys.clk. gen. MAIN 5
I2S_A MAIN 4
PLD MAIN 6
ADAC-RST2
DSP
IC3P01
NJU26204V-TE2
DAC
SPKR L/R
IC3D03
AK4341ETP
MCLK
BICK
SDTI
LRCK
PDN
SMUTE
ACKS
DIF
GAIN
VCOM
VDD
VSS
HVDD
AOUTL
AOUTR
DEM
2X10W CLASS-D POWER AMP.
IC3E02
TDA8932BTW/N2
VSSD(HW)
IN1P
IN1N
DIAG
ENGAGE
POWERUP
CGND
VDDA
VSSA
OSCREF
HVPREF
INREF
TEST
IN2N
IN2P
VSS(HW)
OSCIO
HVP1
VDDP1
BOOT1
OUT1
VSSP1
STAB1
STAB2
VSSP2
OUT2
BOOT2
VDDP2
HVP2
DREF
R
L
SPKR_R+
SPKR_R-
SPKR_L-
SPKR_L+
SPEAKERS SHT.1
MAIN 1
MAIN 12
MAIN 4
MAIN 2
MAIN 12
DGND
A-GND

CONTENTS

PG 1.....BLOCK
PG 2.....POWER
PG 3.....MAIN1 [DC-DC / IF]
PG 4.....MAIN2 [AV-SWITCH / TUNER]
PG 5.....MAIN3 [HDMI / SYSTEM5]
PG 6.....MAIN4 [DM-CORE]
PG 7.....MAIN5 [DM-MEMORY]
PG 8.....MAIN6 [DM-ROM / AV]
PG 9.....MAIN7 [ANALOG-DIGITAL CONVERTOR]
PG 10....MAIN8 [SPA3 MAIN]
PG 11....MAIN9 [SPA3 MEMORY]
PG 12....MAIN10 [TMDS]
PG 13....MAIN11 [AUDIO]
PG 14....MAIN12 [MICRO]
PG 15....MISC[CONT/PREAMP/SBL/FRONT/HDMI/SW-LAMP/LED]

WD-60735	V39
WD-65735	V39
WD-73735	V39
WD-73C8	V39C
WD-63736	V39+
WD-73736	V39+
WD-65835	V39++
WD-73835	V39++
WD-60C8	V39C
WD-65C8	V39C

PG 14....MAIN12 [MICRO]

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A
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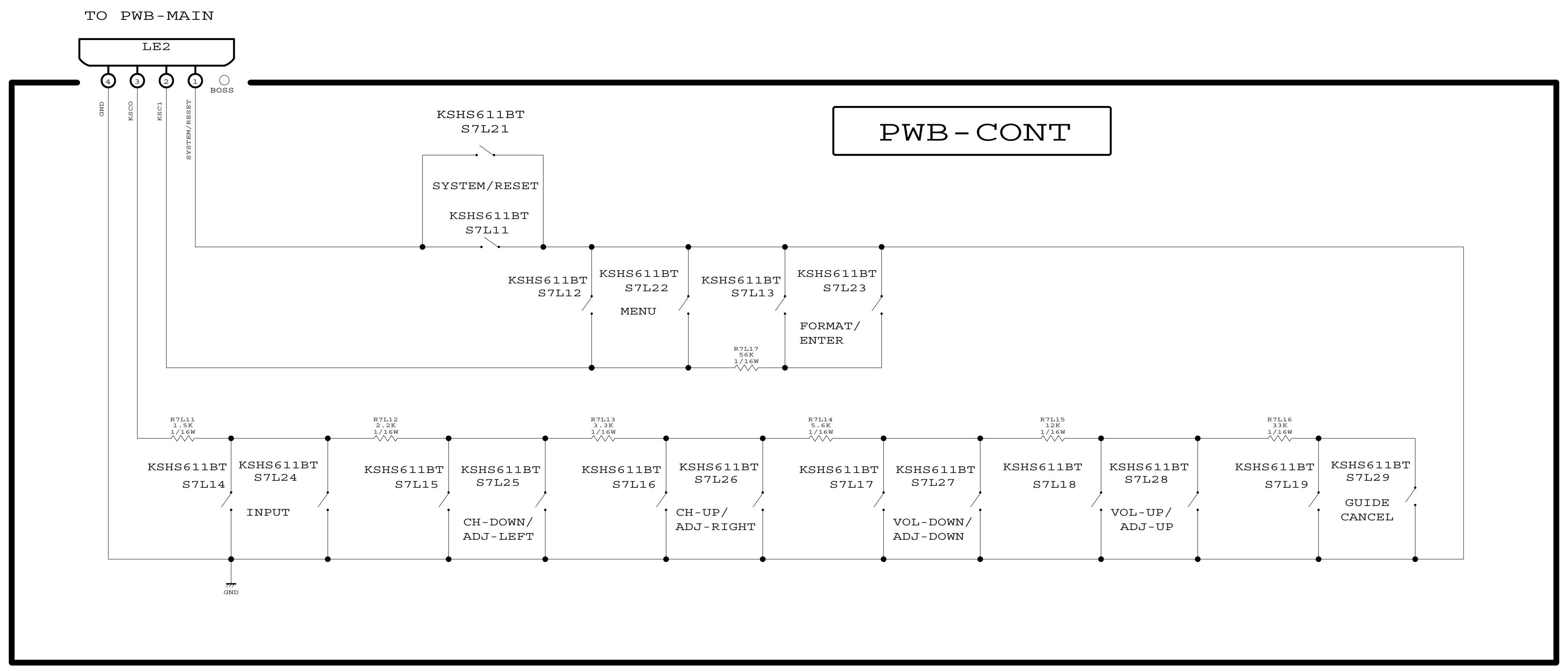
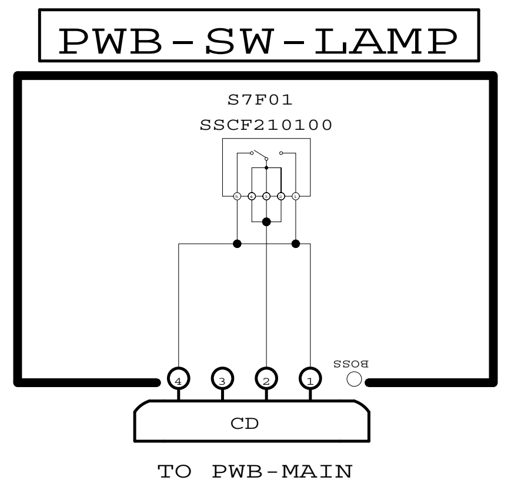
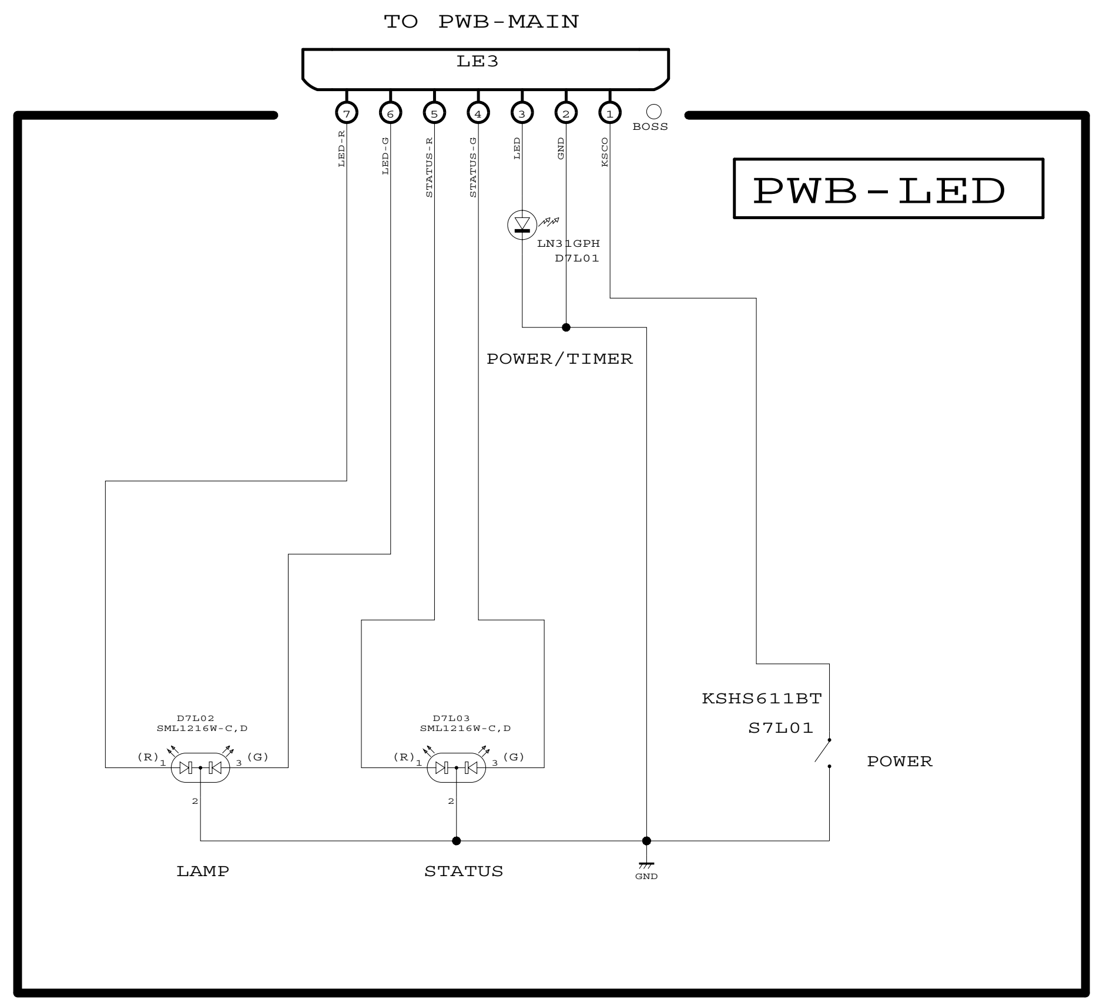
C
D
E
F
G
H
I
J
K
MAIN-01
MAIN-03
MAIN-01
MAIN-10
MAIN-03
MAIN-06
MAIN-02
MAIN-01
MAIN-01
MAIN-10
MAIN-11
MAIN-02
MAIN-02/P-04
MAIN-01
MAIN-01
MAIN-07/PAGE-02
MAIN-04
IC7A01
PD78F1178
IC7A03
MM1563DNRE
KS1
GND
AVREF0
NC
NC
AVREF1
BUS-REQ
PODCARD_DET
9181-RST
HPD4
COVER_DET
HDMI4-DET
HDMI3-DET
HDMI2-DET
HDMI1-DET
HDMI-F-INT
HDMI-R-INT
HDMI-SDA
HDMI-SCL
HDMI-INT
PC_RXD
PC-TXD
DM_TXD
DM_RXD
DM-RTS
SYST5-CAPTURE2
SYST5-CARMASK1
ENG_PWR
MUTE_SPKR1
AVRMUTE
MUTE_SPKR2
STATUS_G
STATUS_R
LAMP_G
LAMP_R
DM-CTS
FAN-CTL1
DLP-RST
LAMPLIT_OUT
SPDIF_DET
LAMP_RELAY
STBY
EVDD1
EVSS1
SEL-LVDS
CABLEDET0
DAC-LD
DAC-CLK
SYST5_CTRL2
DAC-DI
NC
CEC-RXD-INT
DM_RST\
RELAY
CABLEDET1
AUDIODSP-RST
MICPWR-ON
POWER_GOOD
SYST5-RMOU1
ID3
ID2
ID1
PNL-12V-SHORT
3.3V-SHORT
ENG_ID
CHASSIS-TEMP
PON-SHORT
BACKLIGHT-IN
LAMPLIT
WIRED-RMC-DET
ENG-EMR-OFF
EMR-OFF
DLP-ASIC-RDY
FAN-ON
WIRED-RMC
PANEL-PWR
RESV-FPGA
RESV-FPGA
RESV-FPGA
SYST5-CAROUT
SYST5-CAPTURE
RMC
LAMPDIM-TX
LAMPLIT-RX
INV-SW
AC OFF
HDMI-MUTE-DET
INV-SHORT
LAMPEN
NC
ENG-SDA
ENG-SCL
LED
BLUELED
SD-MAIN
GPIO-TEST2
GPIO--TEST1
NC
SYST5-RMOUT2
NC
NC
INV-PWR
SYST5-CARMASK2
TOOL1
TOOL0
EN-BK
LVDS-PWR
LVDS-MAP
RESET
XT2
XT1
FLMD0
X2
X1
REG CAP
VSS
EVSS0
VDD
EVDD0
3.3V_SCL
3.3V_SDA
C7A97
0.1
25V/16V
R7AC3
0
1/16W
R7A95
1K
1/16W
R7AC4
0
1/16W
R7AC5
0
1/16W
R7A85
0
1/16W
R7A71
2.2K
1/16W
R7A59
0
1/16W
R7A01
0
1/16W
R7A08 47 1/16W
R7A09 47 1/16W
R7A02
10K
C7A32
1U
10V/6.3V
C7A36
0.1
25V/16V
R7B30
1M
1/16W
X7A02
20.000MHz
C7A30
C7A31
DGND
(UPDATE CONNECTOR)

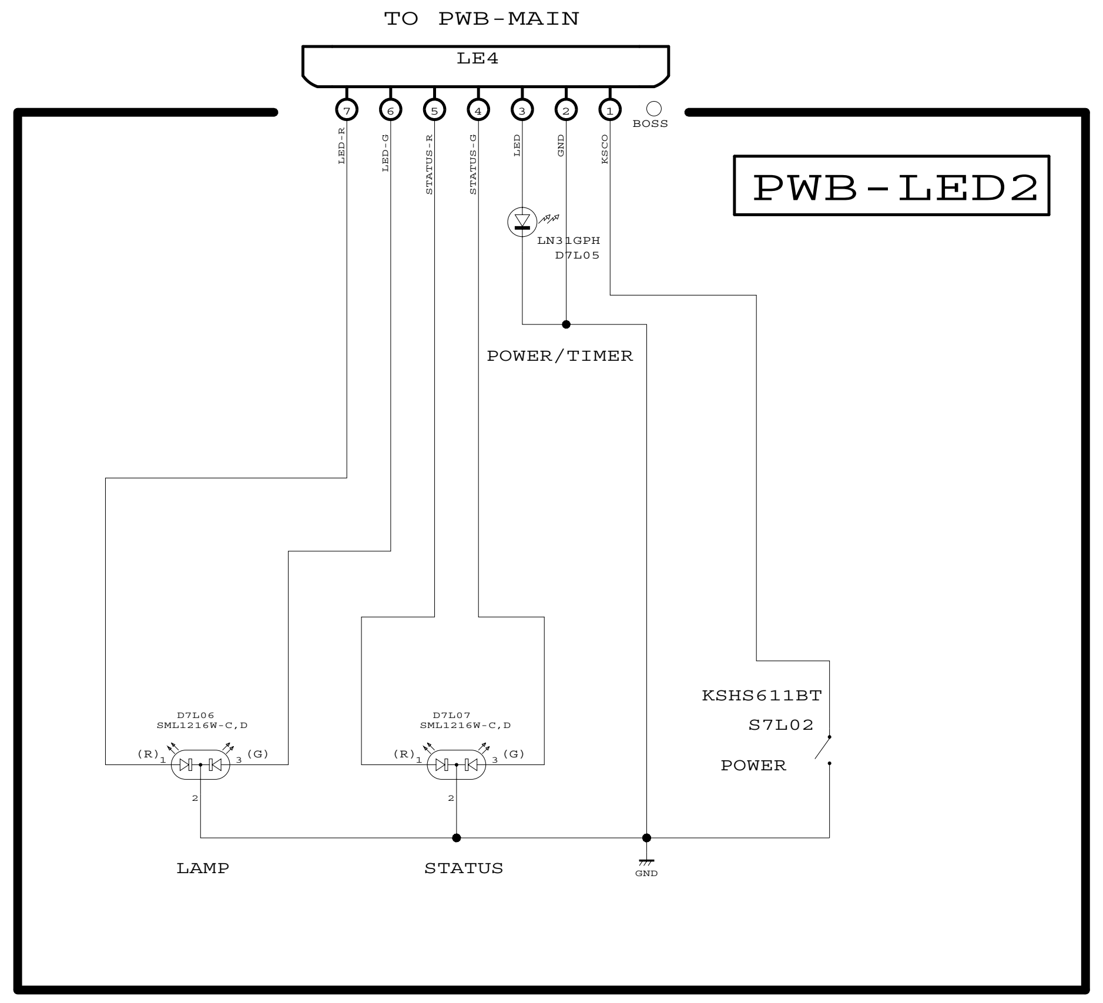
CONTENTS	
PG 1.....BLOCK	WD-60735 V39
PG 2.....POWER	WD-65735 V39
PG 3.....MAIN1 [DC-DC / IF]	WD-73735 V39
PG 4.....MAIN2 [AV-SWITCH / TUNER]	WD-73C8 V39C
PG 5.....MAIN3 [HDMI / SYSTEM5]	WD-63736 V39+
PG 6.....MAIN4 [DM-CORE]	WD-73736 V39+
PG 7.....MAIN5 [DM-MEMORY]	WD-65835 V39++
PG 8.....MAIN6 [DM-ROM / AV]	WD-73835 V39++
PG 9.....MAIN7 [ANALOG-DIGITAL CONVERTOR]	WD-60C8 V39C
PG 10....MAIN8 [SPA3 MAIN]	WD-65C8 V39C
PG 11....MAIN9 [SPA3 MEMORY]	
PG 12....MAIN10 [TMDS]	
PG 13....MAIN11 [AUDIO]	
PG 14....MAIN12 [MICRO]	
PG 15....MISC[CONT/PREAMP/SBL/FRONT/HDMI/SW-LAMP/LED]	PAGE 14

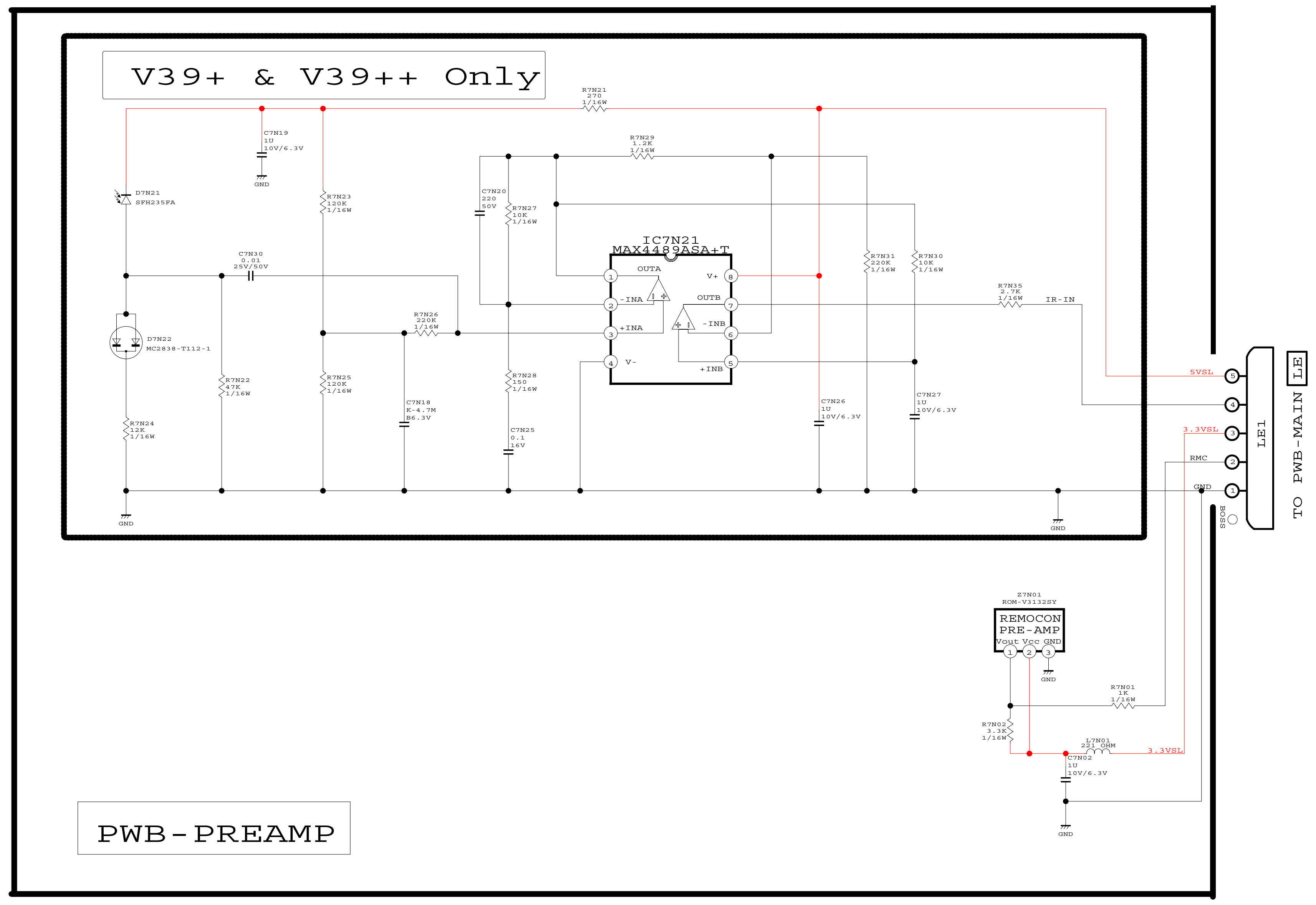
PG 15....MISC [CONT/PREAMP/SBL/FRONT/HDMI/SW-LAMP/LED]


TO PWB-MAIN
LE2
PWB-CONT
KSHS611BT S7L21
SYSTEM/RESET
KSHS611BT S7L11
KSHS611BT S7L12
KSHS611BT S7L22
MENU
KSHS611BT S7L13
KSHS611BT S7L23
FORMAT/ ENTER
KSHS611BT S7L14
KSHS611BT S7L24
INPUT
KSHS611BT S7L15
KSHS611BT S7L25
CH-DOWN/ ADJ-LEFT
KSHS611BT S7L16
KSHS611BT S7L26
CH-UP/ ADJ-RIGHT
KSHS611BT S7L17
KSHS611BT S7L27
VOL-DOWN/ ADJ-DOWN
KSHS611BT S7L18
KSHS611BT S7L28
VOL-UP/ ADJ-UP
KSHS611BT S7L19
KSHS611BT S7L29
GUIDE CANCEL
GND

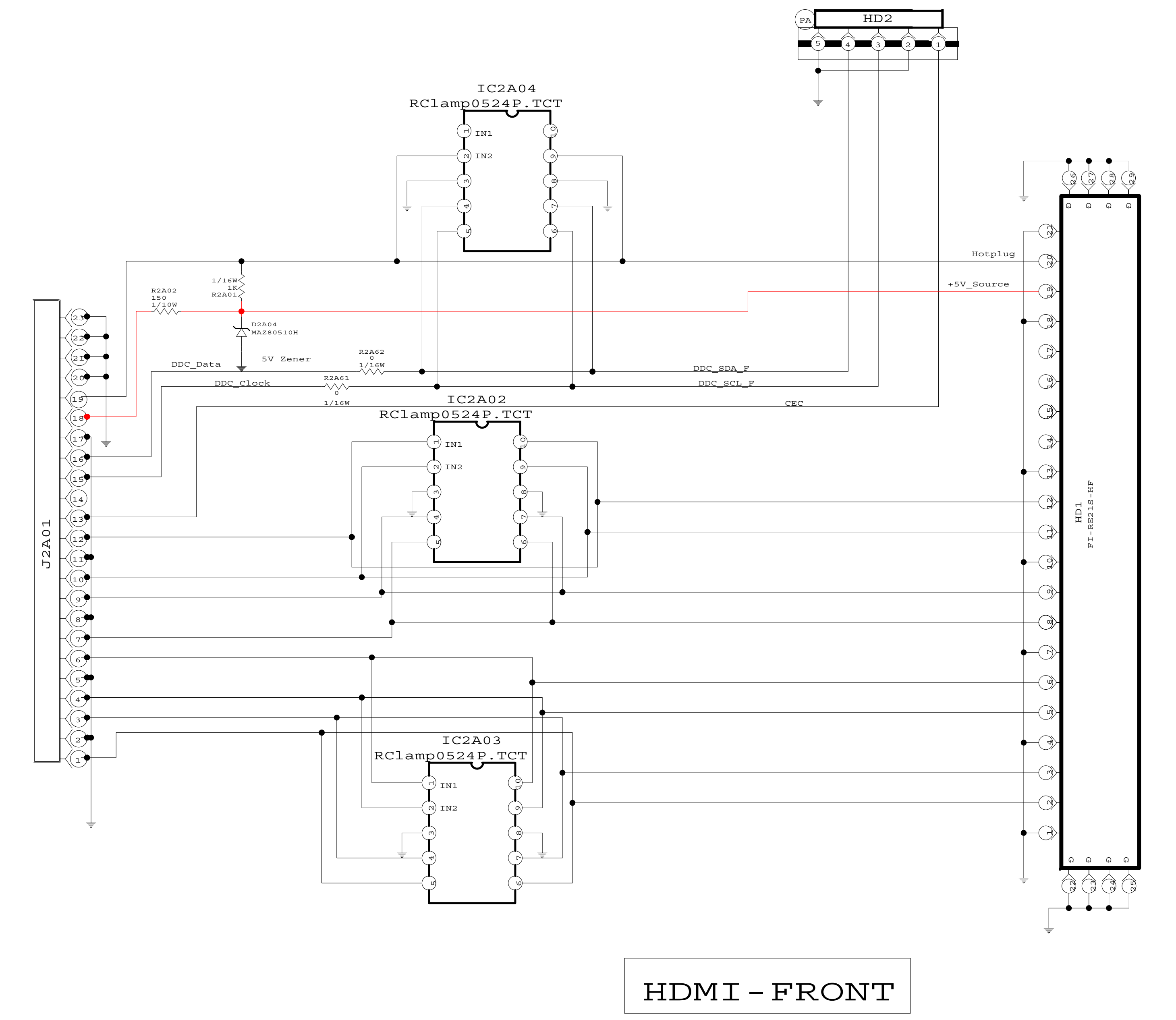

PWB-SW-LAMP
S7F01
SSCF210100
CD
TO PWB-MAIN


TO PWB-MAIN
LE3
PWB-LED
LN150PH D7L01
POWER/TIMER
KSHS611BT S7L01
POWER
LAMP
STATUS
GND

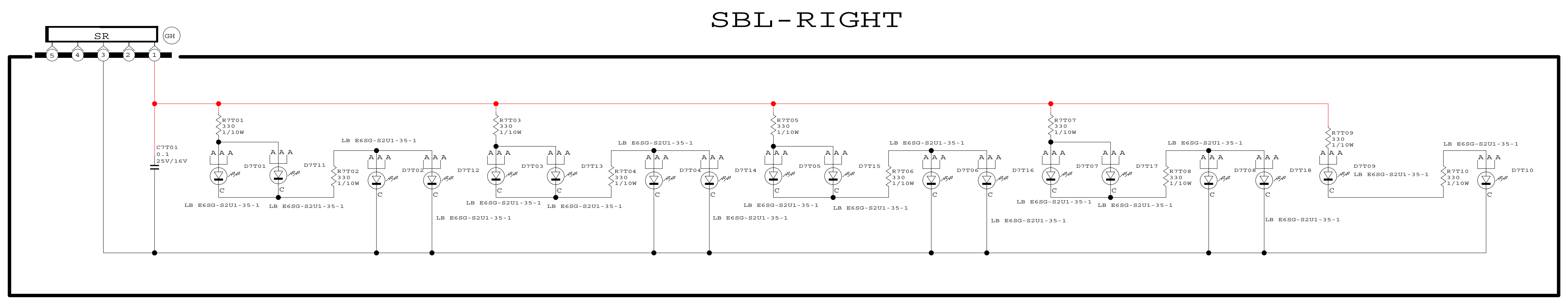

TO PWB-MAIN
LE4
PWB-LED2
LN150PH D7L03
POWER/TIMER
KSHS611BT S7L02
POWER
LAMP
STATUS
GND

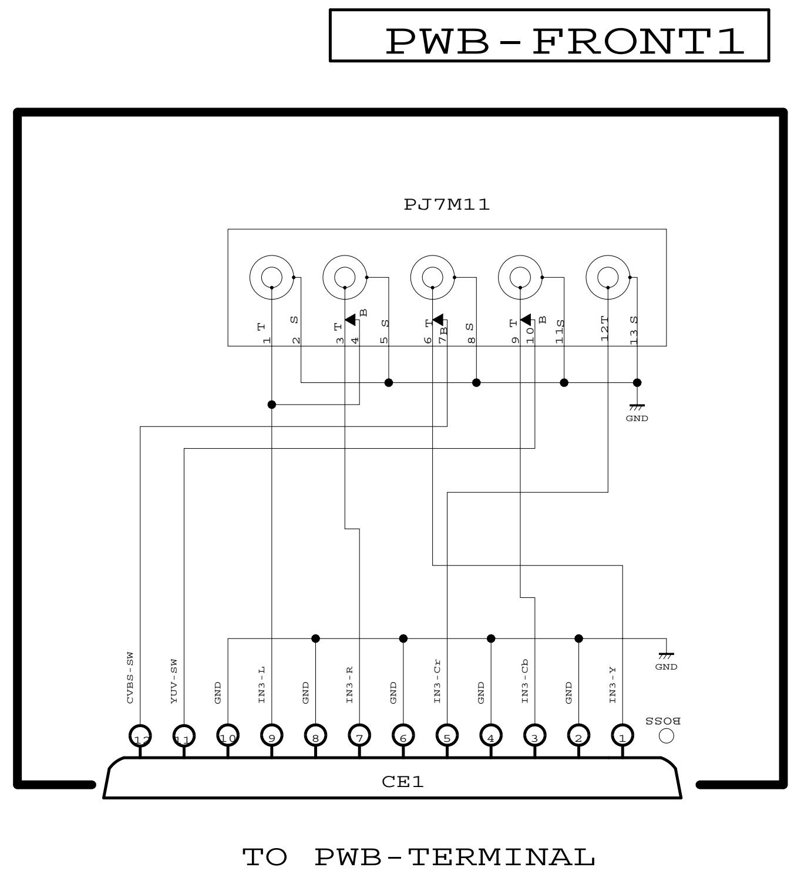

V39+ & V39++ Only
IC7N21
MAX4412ASA+T
OUTA
OUTB
-INA
+INA
-INB
+INB
V-
REMOCON PRE-AMP
IR-IN
LE1
TO PWB-MAIN
PWB-PREAMP
GND

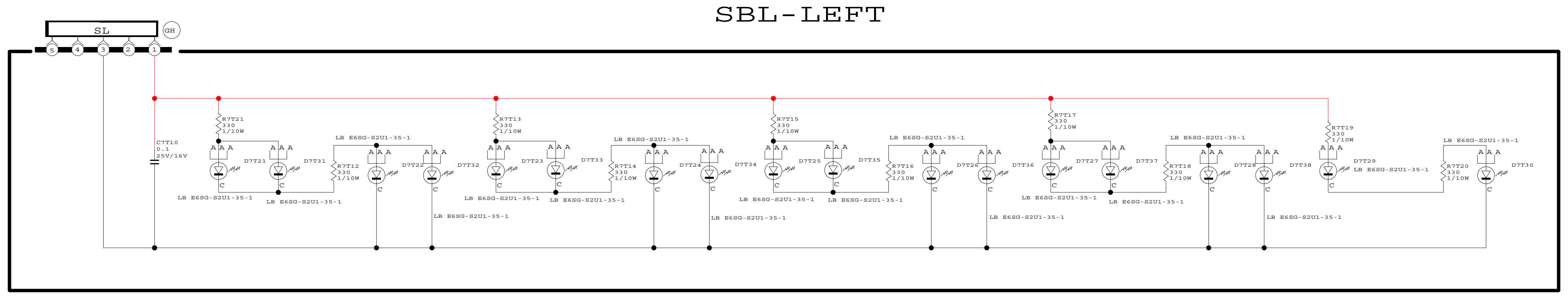
PIN	Signal Assignment
1	T.M.D.S. Data 2+
2	T.M.D.S. Data 2 Shield
3	T.M.D.S. Data 2-
4	T.M.D.S. Data 1+
5	T.M.D.S. Data 1 Shield
6	T.M.D.S. Data 1-
7	T.M.D.S. Data 0+
8	T.M.D.S. Data 0 Shield
9	T.M.D.S. Data 0-
10	T.M.D.S. Clock+
11	T.M.D.S. Clock Shield
12	T.M.D.S. Clock-
13	CEC
14	Reserve
15	DDC Clock
16	DDC Data
17	Ground (return for +5V,
18	+5V Power
19	Hot Plug Detect
Shell	FG
(20)	Location Post (GND)
(21)	Location Post (GND)
(22)	Location Post (GND)
(23)	Location Post (GND)


HD2
IC2A04
RClamp0524P.TCT
IC2A02
RClamp0524P.TCT
IC2A03
RClamp0524P.TCT
J2A01
Hotplug
+5V_Source
DDC_Data
DDC_Clock
5V Zener
DDC_SDA_F
DDC_SCL_F
CEC
HDMI-FRONT

PIN	Signal Assignment
1	T.M.D.S. Data 2 Shield
2	T.M.D.S. Data 2+
3	T.M.D.S. Data 2-
4	T.M.D.S. Data 1 Shield
5	T.M.D.S. Data 1+
6	T.M.D.S. Data 1-
7	T.M.D.S. Data 0 Shield
8	T.M.D.S. Data 0+
9	T.M.D.S. Data 0-
10	T.M.D.S. Clock Shield
11	T.M.D.S. Clock+
12	T.M.D.S. Clock-
13	GND
14	CEC
15	Reserved
16	DDC Clock
17	DDC Data
18	+5V Return
19	+5V
20	Hot Plug Detect
21	GND


SBL-RIGHT
SR


PWB-FRONT1
PJ7M11
CE1
TO PWB-TERMINAL



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WD-60735 V39
WD-65735 V39
WD-73735 V39
WD-73C8 V39C
WD-63736 V39+
WD-73736 V39+
WD-65835 V39++
WD-73835 V39++
WD-60C8 V39C
WD-65C8 V39C